MRID No. 425418-01

### DATA EVALUATION RECORD

- CHEMICAL: Linuron. Shaughnessey No. 035506. 1.
- TEST MATERIAL: Linuron (H-18,794); Urea, N'-(3,4-2. dichlorophenyl)-N-methoxy-N-methyl; CAS No. 330-55-2; Lot No. 90077284; 98.4% active ingredient; a white powder.
- STUDY TYPE: 71-4. Avian Reproduction Study. 3. Species Tested: Bobwhite Quail (Colinus virginianus).
- CITATION: Beavers, J.B., J.W. Foster, and M. Jaber. 1992. 4. H-18,794 (Linuron): A One-Generation Reproduction Study with the Northern Bobwhite (Colinus virginianus). Project No. 112-271. Conducted by Wildlife International Ltd., Easton, Maryland. Submitted by E.I. du Pont de Nemours and Company, Newark, Delaware. EPA MRID No. 425418-01.
- REVIEWED BY: 5.

Michael L. Whitten, M.S. Wildlife Toxicologist KBN Engineering and Applied Sciences, Inc.

6. APPROVED BY:

> Pim Kosalwat, Ph.D. Senior Scientist KBN Engineering and Applied Sciences, Inc.

Henry T. Craven, M.S. Supervisor, EEB/EFED USEPA

Signature: Michael L. Whith

Date: 7/12/93

signature: P. Kosalwat

Date: 7/12/93

signature: Herry J. Garen

- **CONCLUSIONS:** This study is scientifically sound and fulfills the guideline requirements for an avian reproduction study. There were no treatment-related effects at 50 or 100 ppm (nominal concentrations). At 300 ppm, egg production, hatchability, and offspring survival were reduced. Based on these results, the NOEC was 100 ppm (nominal concentration).
- 8. RECOMMENDATIONS: N/A.



#### 9. BACKGROUND:

10. DISCUSSION OF INDIVIDUAL TESTS: N/A.

#### 11. MATERIALS AND METHODS:

- A. <u>Test Animals</u>: Pen-reared, bobwhite quail (*Colinus virginianus*) were purchased from Top Flight Quail Farm, Belvidere, New Jersey. All birds were from the same hatch and were phenotypically indistinguishable from wild birds. The birds were acclimated to the facilities for 17 days prior to initiation of the test. At test initiation, all birds were examined for physical injuries and general health. Birds that did not appear healthy were discarded. The birds were 25 weeks of age at test initiation.
- B. <u>Dose/Diet Preparation/Food Consumption</u>: Test diets were prepared by mixing the test material into a premix which was used for weekly preparation of the final diet. The control diet and three test diets (50, 100, and 300 ppm) were prepared weekly and presented to the birds on Thursday of each week. When necessary, additional feed was prepared. Each of the four groups of adult birds was fed the appropriate diet from test initiation until terminal sacrifice. Dietary concentrations were not adjusted for purity of the test substance. The control diet contained an amount of the solvent (acetone) and carrier (corn oil) equal to that in the treated diets.

Basal diet for adult birds and their offspring was formulated by Agway, Inc. The composition of the diet was presented in the report. The test substance was not mixed into the diet of the offspring. Food and water were supplied ad libitum during acclimation and during the test for adults and offspring.

Six samples from the control and each treatment were collected on day 0 of week 1 to determine the homogeneity of the test material in the diet. Stability samples were collected from the feeders on day 7 of week 1 to confirm the stability of the test substance in the diet. Duplicate verification samples were collected immediately following each diet preparation throughout the study. Samples were frozen and shipped on dry ice to Haskell Laboratories, Newark, Delaware, for analysis using high performance liquid chromatography.

C. <u>Design</u>: The birds were randomly distributed into four groups as follows:

Linuron	·		
Nominal	Number	Birds	<u>Per Pen</u>
Concentration	of Pens	Males	<u>Females</u>
0 ppm	16	1	1
50 ppm	16	. 1	1
100 ppm	16	1	1
300 ppm	16	1	1

Treatment levels were based upon known toxicity data, a pilot study, and expected environmental concentrations. Adult birds were identified by individual leg bands. The phases of the study and their approximate durations were as follows:

- 1. Acclimation 17 days.
- 2. Pre-photostimulation 7 weeks.
- 3. Pre-egg laying (with photostimulation) 3 weeks.
- Egg laying 11 weeks.
- 5. Post-adult sacrifice (final incubation, hatching, 14-day offspring rearing period) 5 weeks.
- Pen Facilities: Adult birds were housed indoors in pens constructed of galvanized wire grid and galvanized sheeting. The pens measured approximately 30 x 51 x 21-26 cm. The average temperature in the adult study room was 18.0 ±2.6°C with an average relative humidity of 40 ±17%.

The photoperiod during acclimation and during the first 7 weeks of the study was 8 hours of light per day. The photoperiod was increased to 17 hours of light per day during week 8 and was maintained at that level until sacrifice of adult birds. The birds were exposed to approximately 480 lux of illumination throughout the study.

E. Adult Observations/Gross Pathology: All adult birds were observed at least once daily throughout the study for signs of toxicity or abnormal behavior. All birds that died during the study and their sacrificed pen mates were necropsied. At study termination, all surviving birds were sacrificed and necropsied. Adult birds were weighed at test initiation, during weeks 2, 4, 6, 8, and at study termination. Food consumption in each pen was determined once each week throughout the study.

Eggs/Eggshell Thickness: Eggs were collected daily F. from all pens, marked according to pen of origin, and fumigated to prevent pathogen contamination. The eggs were then stored at 13.8 ±1.0°C and 46 ±9% relative humidity until incubated. Eggs were removed from the storage room weekly and candled. Cracked or abnormal eggs were discarded. All eggs that were not cracked or used for egg shell thickness measurements were placed in an incubator at 37.5 ±0.0°C and 56% relative humidity. Eggs were candled on day 11 of incubation to determine embryo viability and on day 21 to determine embryo survival. All eggs were turned automatically while in the incubator. The eggs were placed in a hatcher on incubation day 21. The average temperature in the hatcher was 37.2 ±0.0°C with an average relative humidity of 76%.

Weekly throughout the egg laying period, one egg was collected, when available, from each of the odd numbered pens during the odd numbered weeks, and from each of the even numbered pens during the even numbered weeks. These eggs were opened, the contents removed, the shell washed thoroughly and allowed to air dry for at least one week. The average thickness of the dried shell plus membrane was determined by measuring (to the nearest 0.005 mm) five points around the waist of the egg using a micrometer.

- removed from the hatcher on day 25 or 26 of incubation. The average body weight of the hatchlings by pen was then determined. Hatchlings were leg banded for identification by pen of origin and placed in brooding pens until 14 days of age. Each brooding pen measured 72 x 90 x 23 cm, and was constructed of galvanized wire mesh and galvanized sheeting. Temperatures in the brooding compartments were approximately 38°C. Ambient room temperature was 27.2 ±1.3°C. The photoperiod was maintained at 16 hours of light per day. At 14 days of age, the average body weight by parental pen of all survivors was determined.
- H. <u>Statistics</u>: Upon completion of the study, Dunnett's method was used to determine significant differences between the control group and each of the treatment groups. Sample units were the individual pens within each experimental group. Percentage data were arcsine-transformed. The pens in which mortality occurred were not used in statistical comparisons of the data.

Each of the following parameters was analyzed:

Adult Body Weight
Adult Food Consumption
Eggs Laid of Maximum Laid
Eggs Cracked of Eggs Laid
Viable Embryos of Eggs Set
Live 3-Week Embryos of
Viable Embryos
Hatchlings of 3-Week
Embryos
Hatchlings of Eggs Set

Offspring Body Weight
Hatchlings of Maximum Set
14-Day Old Survivors of
Maximum Set
14-Day Old Survivors of
Eggs Set
14-Day Old Survivors of
of Hatchlings
Egg Shell Thickness

## 12. REPORTED RESULTS

A. <u>Diet Analysis</u>: Mean measured concentrations of verification samples were 48.4, 97.0, and 306 ppm, representing 97, 97, and 102% of nominal values for the 50, 100, and 300 ppm nominal concentrations, respectively. The test diets were homogeneously mixed with measured concentrations of 42.7 (CV=4.2%), 87.3 (CV=2.4%), and 262 ppm (CV=5.3%) in the 50-, 100-, and 300-ppm groups, respectively.

The measured concentrations of the stability samples were lower than expected values. The results were contrary to the results of the pilot reproduction studies and the mallard reproduction study conducted with the same test compound and the same diet. The results of those studies indicated that the active ingredient in the test material was stable in the diets for at least 7 days at room temperatures. Original and back-up samples of the bobwhite study were re-analyzed with variable but somewhat higher results (Appendix XII, Table III, attached).

B. Mortality and Behavioral Reactions: There were no treatment-related mortalities at any of the concentrations tested. There was two incidental mortalities in the 100-ppm group. Necropsies of the two dead birds and their pen mates showed no treatment-related findings and the mortalities were considered to be unrelated to treatment. Surviving adults were necropsied following terminal sacrifice. All necropsy findings (included as Appendix IV) were considered to be unrelated to treatment.

No overt signs of toxicity were observed at any concentration. One female in the 50-ppm group displayed intermittent lethargy, ruffled appearance and

wing droop from week 13 onward. One female in the 100-ppm group exhibited a ruffled appearance and lethargy for three days during week 17. One female in the 300-ppm group was noted with ventral head curl during week 7. The body weights and reproductive performance of these three birds were normal, and the behaviors were considered to be unrelated to treatment.

adult Body Weight and Food Consumption: There were no apparent treatment-related effects on adult body weight at any concentration (Table 1, attached). There was a significant increase in terminal male body weights at 100 ppm, when compared to the control. The difference was slight, not dose-responsive, and was not considered to be treatment-related. There were no other significant differences between the control and any treatment group at any body weight interval.

When compared to the control, there were significant increases in food consumption in all treatment groups at various measurement intervals (Table 2, attached). The differences appeared to be due, at least in part, to low values in the control group. To further evaluate food consumption, comparisons were made between each of the treatment groups and the control group from a concurrent study that used birds from the same hatch. When compared to the concurrent control group, there were significant increases in food consumption at 50 ppm during weeks 8 and 13, and significant increases at 100 ppm during weeks 6, 8, and "Since the increases in feed consumption were slight, sporadic in nature, and not correlated with changes in body weight, the differences were not considered to be treatment related." When compared to the concurrent control group, there were increases in food consumption at 300 ppm during weeks 5, 6, 7, 8, 12, and 13. The differences were more consistent, but slight and not correlated with changes in body weight. It could not be determined if the differences were related to treatment.

Production: There were no apparent treatment related effects upon reproduction at 50 or 100 ppm. At both 100 and 300 ppm, there appeared to be increases in the ratios of viable embryos/eggs set and eggs hatched/eggs set (Table 3A, attached). However, the differences were due to an incubator accident. An incubator tray containing eggs from the ninth set became detached during rotation. Consequently, most eggs from the control group and many from the 50-ppm group were

damaged. When data from the ninth set were eliminated from the analyses, there were no significant differences between the controls and the 100 or 300-ppm groups for either viable embryos/eggs set or eggs hatched/eggs set.

There appeared to be a treatment-related reduction in egg production at 300 ppm, although the reduction was slight and not significant.

At 300 ppm, there was a treatment-related reduction in the ratio of hatchlings that survived to 14 days of age. The reduction was significant at p<0.01 when the ninth set was eliminated. There also appeared to be a treatment-related reduction in the ratio of 14-day survivors/eggs set at 300 ppm. While not significantly different from the control when all eggs were considered, the reduction was significant at p<0.01 when eggs from the ninth set were eliminated.

- E. Egg Shell Thickness: When compared to the control group, there were no apparent or significant differences in egg shell thickness at any concentration tested (Table 4, attached).
- group, there were no apparent or significant differences in the body weights of offspring at hatching or at 14 days of age in any treatment group (Tables 5 & 5A, attached).
- "There were no treatment related mortalities or overt signs of toxicity in any of the treatment groups. There were no apparent treatment related effects upon body weight at any of the test concentrations, or upon feed consumption and reproductive parameters at the 50 and 100 ppm test concentrations. At the 300 ppm test concentration, there may have been a slight, treatment related increase in feed consumption, and there was a slight, but treatment related reduction in the number of eggs laid, and the number of hatchlings that survived to 14 days of age." The no observed effect concentration was 100 ppm.

The report stated that the study was conducted in conformance with Good Laboratory Practices (40 CFR Part 160). Quality assurance audits were conducted during the study and the final report was signed by a Quality Assurance Officer of Wildlife International Ltd. An additional statement of conformance with Good Laboratory Practices (40

CFR Part 160) guidelines was included in the analytical report.

# 14. Reviewer's Discussion and Interpretation of the Study:

A. <u>Test Procedure</u>: The test procedures were in accordance with Subdivision E, ASTM, and SEP guidelines except for the following deviations:

The average temperature in the adult study room was 18.0°C with an average relative humidity of 40%; recommended levels are 21°C and 55%.

Eggs were stored at a temperature of 13.8°C and relative humidity of 46%; 16°C and 65% are recommended.

Eggs were set at 37.5°C and 56% relative humidity; 39°C and 70% relative humidity are recommended.

Eggs were candled on day 21 to determine embryo survival; day 18 is recommended.

Eight hours of light, not seven as recommended, was provided during the first seven weeks of the study.

A recovery period (exposure to basal diet only) was not added at the end of the treatment phase of the study.

Behavioral observations of offspring were not reported.

Statistical Analysis: Statistical analyses of в. reproductive parameters were performed by the reviewer using analysis of variance (ANOVA) following squareroot transformation of the count data and arcsine square-root transformation of the ratio data. comparison between control data and data from each treatment level was made using multiple comparison The computer program used is based on the EEB Birdall program, with an exception that the count data were square-root transformed before the ANOVA. significance level was p≤0.05. Analyses were conducted both with and without data from the ninth set of eggs. As discussed by the authors, the ninth set (Lot I) was affected by an incubator accident, in which most eggs from the control group and many from the 50-ppm group were damaged.

Analyses of reproductive parameters were verified (printouts attached) and supported those reported by the authors, with the exception that the ratio of eggs

hatched/live 21-day embryos at 300 ppm (when lot I was eliminated) was significantly lower than control values. The overall value for this parameter was 96% in the control group and 92% in the 300-ppm group, according to Table 3C (attached). The difference, although slight, is considered to be treatment-related.

C. <u>Discussion/Results</u>: Since the incubator accident affected only one set of eggs, it is not a fatal flaw in the study.

The feed consumption data are perplexing and difficult to interpret. Weekly values in all treatment groups were generally greater than in the control group. However, a treatment-related increase in feed consumption would be an unusual occurrence. Unless other studies of the same chemical demonstrate similar results, it is assumed that the observed differences from the control were not treatment-related.

Egg production at 300 ppm was less than in the control group. The difference was not significant, but as the authors indicated, this is assumed to be treatment-related. As mentioned above (Section 14.B), the slightly reduced hatchability at 300 ppm is assumed to be treatment-related. There was also a treatment-related reduction in the survival of offspring at 300 ppm. Based on these results, the NOEC was 100 ppm (nominal concentration).

This study is scientifically sound and fulfills the quideline requirements for an avian reproduction study.

### D. Adequacy of the Study:

- (1) Classification: Core.
- (2) Rationale: Deviations from protocols were minor and did not affect the validity of the study.
- (3) Repairability: N/A.
- 15. COMPLETION OF ONE-LINER: Yes; July 9, 1993.

PROJECT NO.: 112-271 DUPONT HLO #661-92

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TABLE 1
MEAN BODY WEIGHT DATA BY SEX
BOBWHITE
H # 18,794 - PROJECT NUMBER 112-271

rest Group	WK 0 B.W.(9)	Wk 0-2 Wk Change@ B.W	Wk 2 B.W. (g)	Wk 2-4 Changee	WK 4 B.W.(g)	Wk 4-6 Wk 6 Change@ B.W.(g)	4k 6 3.W.(g)	Wk 6-8 Wk 8 Changee B.W.(g)	WK 8 B.W.(g)	Wk 8-T Change@ I	Term. B.W.(9)	Total Change@
O PPM Males	202	m	204	ഗ	209	2	212		214	:	2.0	
Females	199	လ	203	ស	208	-	500	. 2	211	53	241	42
50 РРМ Мајеs	203	m	206	~ <b>'</b>	212	ო	215	m	218	~	222	50
remales	202	က	205	• •	2113	~ ~	212	က	215	36	250	48
100 PPM Males	210		315	# # # # # # # # # # # # # # # # # # #	. alc	•	100	¢		1. 2 • <b>€</b> 2 • •	•	
Fema]eş	202		206	r ~	503	<b>y</b>	508 208	າ ~	57 510	<b>"</b> ਲ	243	39 ¢
300 PPM Males	206		205		509	m	212		216	~	218	21
Fema les	199	**************************************	199	~	707 707	~	203	•	207	<b>8</b> 8	235	39
	1. 3 4.2,											

Mean body weight change of surviving birds.
 Difference from the control statistically significant at p < 0.05.</li>

TABLE 2

MEAN FEED CONSUMPTION DATA (Grams/Bird/Day)

BOBWHITE

H # 13,794 - PROJECT NUMBER 112-271

IEEKS	O PPM	50 PPM	100 PPM	300 PPM CONTROL
	10	21	22 4	19
i	19	21	23 * 22	26 ± 22
2	20	22 25 24 *	22	24 * 22 24 22
3	22	23	25 **	26 ** 26
4	20	27	23 **	24 ** 20
5	19	26 **	29 **	29 ** 22
6 7	20 19	22 26 ** 22	22	23 * 19
/ /	13	26 ±≠	31 **	32 ** 24
8	22	Ę.	21 **	21 ** 20
.9	18	19	25	25 24
10	23	25	27: **	25 24 28 ** 26
11	23	25 23	26 *	33 <b>**</b> 24
12 13	22	23 34 **	20 **	
	23	34 ** 31	33	36 ** 28 34 * 31
14	29	34 **:	33 36 *	
15	31	JT		38 ** 35 37 ** 34
14 15 16 17	32	33	36 *	
	36	40	40	41 * 42
18 19	34	36	39 * 41 **	40 ** 38 40 * 39
19	35	37 42 *	T-1	
20	36	76	43 **	
21 22	33 42	35 47	39 * 50 *	38 * 39 51 ** 52

<sup>\*</sup> Difference from the control statistically significant at p < 0.05. \*\*Difference from the control statistically significant at p < 0.01.

TABLE 3

REPRODUCTIVE DATA - BOBWHITE

H # 18,794 - PROJECT NUMBER 112-271

			# # 18,794	
***************************************	O PPM	50 PPM	100 PPM	300 PPM
Eggs Laid Eggs Cracked Eggs Set Viable Embryos Live 3-Week Embryos Hatchlings 14-Day Old Survivors Eggs Laid/Hen Eggs Laid/Hen/Day @ 14-Day Old Survivors/Hen	734 26 634 535 529 506 470 46 0.59	858 14 762 668 656 616 579 54 0.69 36	660 22 567 525 519 491 453 47 0.60	599 12 512 481 475 446 387 37 0.48 24

<sup>@ -</sup> Based on 78 days.

TABLE 3A

REPRODUCTIVE DATA - (%) - BOBWHITE

H # 18,794 - PROJECT NUMBER 112-271

			H # 18,794	
	O PPM	50 PPM	100 PPM	300 PPM
Eggs Laid Eggs Laid/Max. Laid (%) Eggs Cracked/Eggs Laid (%) Viable Embryos/Set (%) Live 3-Week Embryos/Viable (%) Hatchlings/3-Week (%) 14-Day Old Survivors/Hatch (%) Hatchlings/Set (%)	734 70 3 83 99 96 94 79	858 81 2 88 98 94 94	560 71 3 93 ** 99 95 93 87 *	599 57 2 94 ** 99 93 84 * 86 *
14-Day Old Survivors/Set (%) Hatchlings/Max. Set (%) 14-Day Old Survivors/Max. Set (%)	74 54 ) 50	76 65 61	81 59 55	72 47 41

<sup>\*</sup> Difference from the control statistically significant at p < 0.05. \*\*Difference from the control statistically significant at p < 0.01.

TABLE 3B

REPRODUCTIVE DATA MINUS LOT I - BOBWHITE

H # 18,794 - PROJECT NUMBER 112-271

***************************************			H # 18,794
	O PPM	50 PPM	100 PPM 300 PPM
Eggs Laid Eggs Cracked Eggs Set Viable Embryos Live 3-Week Embryos Hatchlings 14-Day Old Survivors Eggs Laid/Hen Eggs Laid/Hen/Day @ 14-Day Old Survivors/Hen	631 22 543 516 512 490 455 39 0.51	756 11 673 647 640 600 563 47 0.61	577 521 17 10 496 444 470 419 465 414 441 387 406 330 41 33 0.53 0.42 29 21

<sup>@ -</sup> Based on 78 days.

TABLE 3C

REPRODUCTIVE DATA MINUS LOT I - (%) - BOBWHITE

H # 18,794 - PROJECT NUMBER 112-271

			H # 18,794
***************************************	O PPM	50 PPM	100 PPM 300 PPM
Eggs Laid Eggs Laid/Max. Laid (%) Eggs Cracked/Eggs Laid (%) Viable Embryos/Set (%) Live 3-Week Embryos/Viable (%) Hatchlings/3-Week (%) 14-Day Old Survivors/Hatch (%) Hatchlings/Set (%) 14-Day Old Survivors/Set (%) Hatchlings/Max. Set (%) 14-Day Old Survivors/Max. Set (%)	531 65 3 95 99 96 94 91 85	756 77 1 96 99 94 93 89 84 69 55	577 521 688 53 3 2 95 94 99 98 95 92 92 82 ** 89 86 83 70 ** 58 45 54 38

<sup>\*\*</sup>Difference from the control statistically significant at 5 < 0.01.

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TABLE 4

EGG SHELL THICKNESS DATA - (mm)

BOBWHITE

H # 18,794 - PROJECT NUMBER 112-271

		H # 18,794	
	O PPM	50 PPM 100 PPM	300 PPM
No. of Eggs Measured	69	75 64	73
Mean Egg Shell Thickness (mm)	0.218	0.221 0.214	0.214
± standard deviation	± 0.015	± 0.022 ± 0.020	± 0.015

The above differences from the control are not statistically significant.

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TABLE 5
BODY WEIGHT DATA (g) - HATCHLINGS
BOBWHITE

H # 18,794 - PROJECT NUMBER 112-271

			H ≢ 18,794	
****	O PPM	50 PPM	100 PPM	300 PPM
No. of Chicks Weighed	505	614	490	446
Mean Body Weight (g)	6.0 ±0.6	6.2 ±0.6	5.9 ±0.5	6.9 ±0.8

The above differences from the control are not statistically significant.

TABLE 5A

30DY WEIGHT DATA (g) - 14-DAY OLD SURVIVORS

30BWHITE

H # 18,794 - PROJECT NUMBER 112-271

		H ≢ 1.	5,794	
	O PPM	50 PPM 100	PPM	300 PPM
No. of Chicks Weighed	470	579	<b>453</b>	387
Mean Body Weight (g)	23 ± 3 23 ± B	23 = 3 24 23 ± 3 24	: 3 : 3	22 = + 23 ± 4

The above differences from the control are not statistically significant.

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TABLE III

# STABILITY OF ACTIVE INCREDIENT IN H-18,794 AVIAN DIETS

SAMPLE NUMBER (A)	SAMPLE TYPE	NOMINAL	CENTRATION (PR	AVERAGE	PERCENT NOMINAL	
25	WEEK 1/DAY 0	0	ND(c)	ND		
33	WEEK 1/DAY 7	0	ND ND	ND	angilis. Ada <mark>lama</mark> ng Adalah	
27	WEEK 1/DAY 0	50	46.8 47.1 47.2	47.1	94	
35	WEEK 1/DAY 7	50	32.8 32.8 32.8	32.8	66	
35(3)	WEEK 1/DAY 7	50	39.5 39.5	39.5	<b>79</b>	
36(3)	WEEK 1/DAY 7	50	35.1 35.2	35.2	<b>70</b>	
29	WEEK 1/DAY 0	100	83.8 83.2 83.7	83.6	84	
37	VEEK 1/DAY 7	100	62.4 61.8 61.7	62.0	<b>62</b>	
37(a)	WEEK 1/DAY 7	100	77.5 77.1	77.3	77	
38(a)	WEEK 1/DAY 7	100	93.2 92.7	92.9	93%	

<sup>(</sup>A) Wildlife International, Ltd. sample number of diets prepared October 3, 1991. Except for number 33 which was prepared October 2, 1991.

(3) Re-analysis of sample and its back-up indicated an increase from original

value.

<sup>(</sup>c) ND stands for not detected.

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## TABLE III(continued)

# STABILITY OF ACTIVE INGREDIENT IN H-18,794 AVIAN DIETS

SAMPLE	SAMPLE	CON	CENTRATION (	ppm) PERCENT
NUMBER (A)	TYPE	NOMINAL	MEASURED	AVERAGE NOMINAL
31	WEEK 1/DAY O	300	284	
		300	283	
는 10년 (1년 1년 1			284	283 94
39	WEEK 1/DAY 7	300	201	
			201	
			201	201 67
39(3)	WEEK 1/DAY 7	300	212	
	W. 27 Dill 7	300	213	212 71
40(8)	WEEK 1/DAY 7	300	244	
40(5)	WEER I/URI /	200	243	244 81
		•		

<sup>(</sup>A) Wildlife International, Ltd. sample number of diets prepared October 3, 1991.

<sup>(</sup>B) Re-analysis of sample and its back-up indicated an increase from original value.

LINURON: BOBWHITE QUAIL

TRT1	Ξ	CONT	rol
TRT2	=	50	PPM
TRT3	=	100	PPM
		700	

TRT3 =	100 PPM						
IK14 =	300 PPM		TRT	EL	EC	ES	VE
CASE	1		1	29	2	24	24
CASE	2		1	47	0	41	41 27
CASE	3 4		1 1	32 33	0 0	29 28	27
CASE CASE	5		1	40	3	34	31
CASE	6		1	30	Õ	27	26
CASE	7		i	38	3	32	28
CASE	8		. 1	55	0	47	41
CASE	9		1	21	0	19	18
CASE	10		1	51 .	0	46	39
CASE	11		1	50	0 3	45 49	45 49
CASE CASE	12 13		. 1 1	57 48	2	42	42
CASE	14		i	50	2 2 7	43	43
CASE	15		1	43	7	33	31
CASE	16		1	7	0	4	4
CASE	17	*	2	51	0	45	45
CASE	18		2	37	0	32	29
CASE	19		2	44 27	0 0	39 24	37 23
CASE CASE	20 21		2	56	0	52	52
CASE	22		2	27	ŏ	23	23
CASE	23		2 .	53	0	49	48
CASE	24		2	61	1	54	47
CASE	25		, 2	45	y 0	41	40
CASE	26		2	57 72	2	50 29	47 29
CASE CASE	27 28		2	32 56	0 1	50	48
CASE	29		2	51	5	42	41
CASE	30		2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3	51	1	45	43
CASE	31		2	51	1	46	46
CASE	32		2	57	0	52	49
CASE	33		3	2	0	1	1 21
CASE CASE	34 35	•	3. 7	29		23	21
CASE	36		3	32	0 .	27	26
CASE	37		3 3	52	2	46	46
CASE	38		3 3	51	· · 8	38	37
CASE	39		3	42	0	37	36
CASE	40		3	43	3	36	33
CASE	41		5 7	52 51	1 0	45 46	36 45
CASE CASE	42 43		3	J (	. 0	40	43
CASE	44		3	49	Ö	43	41
CASE	45		3 3 3 3 3	39	2	33	33
CASE	46		3	39	0	35	32
CASE	47		3	40	0	36	35
CASE	48 40		3 4	56 40	0 0	50 36	48 36
CASE CASE	49 50		4	50	0 -	45	39
CASE	51		4	20	Ŏ	17	14
CASE	52		4	18	Ō	14	11
CASE	53		4	55	1	50	48
CASE	54		4	37	. 0	32	32
CASE	55		4	22	2	16	14
CASE	56 57		4	42 50	1 0	35 46	34 42
CASE CASE	57 58		4	25	0	46 21	21
CASE	59		4	23	1	19	18
CASE	60		4	32	0	27	27
CASE	61		4	12	0	10	10
CASE	62		4 .	34	4	25	25
CASE	63 67	r.	4 4	43 18	0′ 1	39 12	36 12
CASE	64		4	19	l	12	12

TRT	LE21	НАТ	TWOWK
1111111111111111222222222222222223333333	24 41 27 26 31 26 28 41 18 38 45 42 43 29 44 45 27 43 29 44 45 47 47 41 44 49 41 41 41 42 43 43 45 47 47 41 41 42 43 43 45 47 47 47 48 49 40 40 40 40 40 40 40 40 40 40 40 40 40	23 40 27 23 30 24 28 39 18 30 40 41 29 45 45 43 30 51 22 44 41 47 48 42 42 43 43 43 43 43 43 43 43 43 43 43 43 43	23 37 23 23 23 23 23 23 23 24 25 25 26 39 35 41 39 45 39 45 39 45 45 45 45 45 45 46 47 47 48 48 49 49 49 49 49 49 49 49 49 49 49 49 49
4 4 4 4 4 4	34 42 20 18 27 10 25 35	33 40 18 16 25 10 24 34	28 31 17 12 25 3 20 31
	111111111111111111111111111111111111111	1 24 1 27 1 26 1 28 1 28 1 28 1 28 1 28 1 28 1 28 1 28	1

ANOVA on SQR(Eggs Laid)

TRT

1.000

2.000

3.000

DEP VAR:	SEL N:	62	MULTIPLE R:	0.354 SQUARE	D MULTIPLE R: 0.12
	A	NÄLYSIS C	OF VARIANCE		
SOURCE	SUM-OF-SQUA	RÉS DF	MEAN-SQUARE	F-RATIO	P
TRT	12.3	06 3	4.102	2.762	0.050
ERROR	86.1	33 58	1.485		
	ntrast of tre		with control.		
TEST OF HYPO	OTHESIS				
SOURC	E SS	DF	MS	F	Р
HYPOTHESI: ERRO	s 3.52 R 86.13	7 1 3 58	3.527 1.485	2.375	0.129
TEST FOR EF	FECT CALLED: OTHESIS	TRT	with control.		
SOURC	-	DF		F	P
HYPOTHESI ERRO	s 0.05 R 86.13	9 1 3 58	0.059 1.485	0.040	0.842
	FECT CALLED:		with control		
SOURC	E SS	DF	MS	F	P
HYPOTHESI ERRO		29 1 33 58		1.770	0.189

ANOVA on SQR(Eggs Cracked)
LEVELS ENCOUNTERED DURING PROCESSING ARE:
TRT

1.000

2.000

4.000

DEP VAR:	SEC	N:	62	MULTIPLE R: 0.	160 SQUARED	MULTIPLE R: (	0.026
		ANALY	SIS C	F VARIANCE			
SOURCE	SUM-0	F-SQUARES	DF	MEAN-SQUARE	F-RATIO	P	
TRT		0.985	3	0.328	0.508	0.678	
ERROR		37.483	58	0.646			
Post-hoc co TEST FOR EF TEST OF HYP	FECT CA	LLED:		with control.			,
SOURC	Œ	SS	DF	MS	F	Р	
HYPOTHES! ERRO		0.614 37.483	1 58	0.614 0.646	0.951	0.33	4
Post-hoc co	FFECT CA	LLED:	ent 2 TRT	with control.			
SOUR	CE	ss	DF	MS	F	Р	
HYPOTHES! ERRO		0.054 37.483		0.054 0.646	0.083	0.77	5
Post-hoc co	FFECT CA	LLED:	ent 3 TRT	with control.			
SOUR	CE	ss	DF	MS	F	P	
HYPOTHES ERRO		0.682 37.483	1 58	0.682 0.646	1.055	0.30	9

ANOVA on SQR(Eggs Set)
LEVELS ENCOUNTERED DURING PROCESSING ARE:
TRT

1.000

2.000

4.000

DEP VAR:	SES	N:	62	MULTIPLE R: 0.	370 SQUARED	MULTIPLE R: 0.137
		ANALY	sis c	F VARIANCE		
SOURCE	SUM-0	F-SQUARES	DF	MEAN-SQUARE	F-RATIO	Р
TRT		13.819	3	4.606	3.061	0.035
ERROR		87.274	58	1.505		
Post-hoc co TEST FOR EF TEST OF HYPO	FECT CA	LLED:	ent 1 TRT	with control.		
SOURC	E	ss	DF	MS	F	Р
HYPOTHESI: ERRO	-	4.371 87.274	1 58	4.371 1.505	2.905	0.094
Post-hoc co TEST FOR EF TEST OF HYP	FECT CA	LLED:	ent 2 TRT	with control.		
SOURC	E .	ss	DF	MS	F	Р
HYPOTHESI ERRO	_	0.042 87.274	1 58	0.042 1.505	0.028	0.869
Post-hoc co TEST FOR EF TEST OF HYP	FECT CA	ALLED:	ent 3 TRT	with control.		
SOURC	E	SS	DF	MS	F	Р
HYPOTHESI ERRO		2.612 87.274	1 58	2.612 1.505	1.736	0.193

ANOVA on SQR(Viable Embryos)
LEVELS ENCOUNTERED DURING PROCESSING ARE:
TRT

1.000

2.000

4.000

QUARED MULTIPLE R: 0.  TIO P 47 0.025  F P 3.210 0.078
F P 3.210 0.078
F P 3.210 0.078
F P 3.210 0.078
3.210 0.078
3.210 0.078
3.210 0.078
F P
F P
0.021 0.884
0.021 F 1.870

ANOVA on SQR(21-day Live Embryos)
LEVELS ENCOUNTERED DURING PROCESSING ARE:
TRT

1.000

2.000

4.000

EP VAR:	SLE21	N:	62	MULTIPLE R: 0.	382 SQUARED	MULTIPLE R: 0.14
	,	ANALY	'sis c	F VARIANCE		
SOURCE	SUM-C	F-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
rrt		14.379	3	4.793	3.309	0.026
ERROR		84.016	58	1.449		
Post-hoc of TEST FOR E	FFECT CA	ALLED:	ent 1 TRT	with control.	1	
SOUR	RCE	SS	DF	MS	F	P P
HYPOTHES ERF	SIS ROR	4.457 84.016	· 1 58	4.457 1.449	3.077	0.085
Post-hoc o TEST FOR E	EFFECT CA	ALLED:	ent 2 TRT	with control.		
SOUF	RCE	SS	DF	MS	F	Р
HYPOTHES ERF	SIS ROR	0.021 84.016	1 58	0.021 1.449	0.015	0.904
Post-hoc o	EFFECT CA	ALLED:	ent 3 TRT	with control.		
sour	RCE	ss	DF	MS	F	. Р
HYPOTHES ERF	SIS ROR	2.797 84.016	1 58	2.797 1.449	1.931	0.170

ANOVA on SQR(Hatched)
LEVELS ENCOUNTERED DURING PROCESSING ARE:
TRT

1.000

2.000

4.000

	SHAT	N:	62	MULTIPLE R: 0.	380 SQUARED	MULTIPLE R: 0.14
		ANAL	rsis o	F VARIANCE		
SOURCE	SUM-	OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	Р
TRT		13.960	3	4.653	3.253	0.028
ERROR		82.955	58	1.430		
Post-hoc TEST FOR TEST OF H	EFFECT C	ALLED:	ent 1 TRT	with control.		
sou	RCE	ss	DF	MS	F ,	P
HYPOTHE	SIS	3.508 82.955	1	3.508 1.430	2.453	0.123
EK	ROR	82.955	58	1.450	1	
Post-hoc TEST FOR	contrast EFFECT C	of treatm	ent 2	with control.	i .	
Post-hoc TEST FOR TEST OF H	contrast EFFECT C	of treatm ALLED: S	ent 2 TRT	·	F	P
Post-hoc TEST FOR TEST OF H SOU	contrast EFFECT C YPOTHESI RCE	of treatm ALLED: S	ent 2 TRT DF 1	with control.	F 0.002	P 0.961
Post-hoc TEST FOR TEST OF H SOU	contrast EFFECT C YPOTHESI RCE	of treatm ALLED: S SS 0.003	ent 2 TRT DF 1	with control.  MS  0.003		
Post-hoc TEST FOR TEST OF H SOU HYPOTHE ER	contrast EFFECT C YPOTHESI RCE SIS ROR  contrast EFFECT C	of treatm ALLED: S SS 0.003 82.955 of treatm	ent 2 TRT DF 1 58	with control.  MS  0.003		
Post-hoc TEST OF H SOU HYPOTHE ER Post-hoc TEST FOR TEST OF H	contrast EFFECT C YPOTHESI RCE SIS ROR  contrast EFFECT C	of treatm ALLED: S SS 0.003 82.955 of treatm	ent 2 TRT DF 1 58 ent 3	with control.  MS 0.003 1.430  with control.		

ANOVA on SQR(Two week Survivors)
LEVELS ENCOUNTERED DURING PROCESSING ARE:
TRT

1.000

2.000

3.000

DEP VAR:	STWOWK	N:	62	MULTIPLE R: 0	.432 SQUARED	MULTIPLE R: 0.186
		ANALY	sis c	F VARIANCE		
SOURCE	SUM-	OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
TRT		19.258		6.419	4.427	0.007
ERROR		84.108	58	1.450		
Post-hoc TEST FOR TEST OF H	EFFECT C	ALLED:	ent 1 TRT	with control.		
SOL	JRCE	ss	DF	MS	F	P
HYPOTHE ER	ESIS RROR	3.442 84.108		3.442 1.450	2.374	0.129
	EFFECT C	ALLED:		with control.		
sou	JRCE	SS	DF	MS	· <b>F</b>	Р
HYPOTHE EF		0.001 84.108		0.001 1.450	0.000	0.985
Post-hoc TEST FOR TEST OF 1	EFFECT C	ALLED:	ent 3 TRT	with control.		
SOL	JRCE	ss	DF	MS	F	Р
HYPOTHI EI		6.304 84.108	1 58	6.304 1.450	4.347	0.041

ANOVA on EC/EL

LEVELS ENCOUNTERED DURING PROCESSING ARE:

TRT

DEP VAR:

1.000

RESP1

2.000

N:

3.000

4.000

62 MULTIPLE R: 0.156 SQUARED MULTIPLE R: 0.024

ANALYSIS OF VARIANCE Р. SOURCE SUM-OF-SQUARES DF MEAN-SQUARE F-RATIO 25.482 0.483 0.696 TRT 76.445 3 **ERROR** 3061.708 58 52.788

Post-hoc contrast of treatment 1 with control. TEST FOR EFFECT CALLED:  $\ensuremath{\mathsf{TRT}}$ 

TEST OF HYPOTHESIS

SOURCE DF MS SS 0.251 70.847 70.847 1.342 HYPOTHESIS 1 **ERROR** 3061.708 52.788

Post-hoc contrast of treatment 2 with control. TEST FOR EFFECT CALLED: TRT

TEST OF HYPOTHESIS

SOURCE SS DF MS HYPOTHESIS 6.058 6.058 0.115 0.736 **ERROR** 3061,708 58 52.788

Post-hoc contrast of treatment 3 with control. TRT

SS

TEST FOR EFFECT CALLED:

TEST OF HYPOTHESIS

SOURCE

**ERROR** 

HYPOTHESIS

DF

MS 24.322

0.461

0.500

24.322 1 3061.708 58 52.788

RESP2

ANOVA on VE/ES

LEVELS ENCOUNTERED DURING PROCESSING ARE:

TRT

1.000

2.000

3.000

4.000

N:

ANALYSIS OF VARIANCE

3

SOURCE

SUM-OF-SQUARES

DF MEAN-SQUARE

F-RATIO

62 MULTIPLE R: 0.087 SQUARED MULTIPLE R: 0.008

TRT

DEP VAR:

32.550

10.850

0.149

0.930

**ERROR** 

4222.344 58 72.799

Post-hoc contrast of treatment 1 with control. TRT

TEST FOR EFFECT CALLED:

TEST OF HYPOTHESIS

DF

MS

HYPOTHESIS **ERROR** 

SOURCE

0.765 4222.344

SS

0.765 72.799 0.011

0.919

Post-hoc contrast of treatment 2 with control. TRT

TEST FOR EFFECT CALLED:

TEST OF HYPOTHESIS

SS

DF

58

HYPOTHESIS **ERROR** 

SOURCE

17.098 4222.344

58

17.098 72.799

MS

0.235

0.630

Post-hoc contrast of treatment 3 with control. TRT

TEST FOR EFFECT CALLED:

TEST OF HYPOTHESIS

SOURCE

HYPOTHESIS

7.708

SS

DF 1

7.708

MS

0.106

0.746

ERROR

4222.344

58

ANOVA on LE21/VE

LEVELS ENCOUNTERED DURING PROCESSING ARE:

TRT

1.000

2.000

4.000

EP VAR:	RESP3	N:	62	MULTIPLE R: 0	.101 SQUARED	MULTIPLE R: 0.0
		ANAL	YSIS C	F VARIANCE		
SOURCE	SUM	-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
rrt		18.823	3	6.274	0.200	0.896
RROR		1821.227	58	31.400		
	EFFECT (	CALLED:		with control.		
SOU	IRCE	SS	DF	MS	F	P
HYPOTHE ER	SIS	15.976 1821.227	1 58	15.976 31.400	0.509	0.479
	EFFECT	CALLED:		with control.		
SOU	JRCE	SS	DF	MS	, <b>F</b>	P
		9.047 1821.227			0.288	0.593
Post-hoc TEST FOR TEST OF H	EFFECT	CALLED:	ent 3 TRT	with control.		
SOL	JRCE	ss	DF	MS	F	P
HYPOTHE ER	ESIS	10.798 1821.227	1 58	10.798 31.400	0.344	0.560

ANOVA on HAT/LE21

LEVELS ENCOUNTERED DURING PROCESSING ARE:

1.000

2.000

4.000

1.000	2.000		5.000		
DEP VAR: RESP	4 N:	62	MULTIPLE R:	0.293 SQUARED	MULTIPLE R: 0.086
	ANALY	rsis c	F VARIANCE		
SOURCE SU	M-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
TRT	305.666	.3	101.889	1.813	0.155
ERROR	3259.035	58	56.190		
Post-hoc contra TEST FOR EFFECT TEST OF HYPOTHE	CALLED:		with control.		
SOURCE	SS	DF	MS	F	Ρ ,
HYPOTHESIS ERROR	162.329 3259.035		162.329 56.190	2.889	0.095
Post-hoc contra TEST FOR EFFECT TEST OF HYPOTHE	CALLED:	ent 2 TRT	with control.		
SOURCE	SS	ĎF	MS	F	Ρ '
HYPOTHESIS ERROR	31.243 3259.035		31.243 56.190	0.556	0.459
Post-hoc contra TEST FOR EFFECT TEST OF HYPOTHE	CALLED:	ent 3 TRT	with control.		
SOURCE	SS	DF	MS	, F	<b>P</b> ,
HYPOTHESIS ERROR	256.210 3259.035	1 58	256.210 56.190	4.560	0.037

ANOVA on TWOWK/HAT

LEVELS E	NCOUNTERED	DURING	PROCESSING	ARE:
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TRT

1.000

2.000

3.000

EP VAR:	RESP5	N:	62	MULTIPLE R: 0	.427 SQUARED	MULTIPLE R	0.183
		ANAL	'SIS C	F VARIANCE			
SOURCE	SUM-	OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	Р	
rrt .		1237.046	3	412.349	4.322	0.008	
ERROR		5533.228	58	95.400			*,
Post-hoc co TEST FOR E	FFECT (	CALLED:	ent 1 TRT	with control.			
SOUR	CE	SS	DF	MS	F	. <b>P</b>	
HYPOTHES Err		4.748 5533.228	1 58	4.748 95.400	0.050	0.	324
	FFECT (	CALLED:		with control.			
SOUR	CE	ss	DF	MS	F	P	
HYPOTHES		41.257	_1	41.257	0.432	0.	513
ERR	OR	5533.228	58	95.400			

ANOVA on HAT/ES

TRT

1.000

2,000

3.000

DEP VAR:	RESP6 N:	62	MULTIPLE R: 0.	203 SQUARED	MULTIPLE R	: 0.041
	ANAL	YSIS O	F VARIANCE			
SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P	
rrt	185.545	3	61.848	0.827	0.484	
RROR	4337.982	58	74.793			
	ontrast of treatm FECT CALLED: POTHESIS	ent 1 TRT	with control.			
SOURC	E SS	DF	MS	F	Р	
HYPOTHESI ERRO	The second secon	1 58	31.081 74.793	0.416	0	.522
	ontrast of treatm FECT CALLED: POTHESIS	ent 2 TRT	with control.			4 - gi , - 1 de 1
SOURC	CE SS	DF	MS	F	. Р	
IIVDOTII=01	-	1 58	20.191 74.793	0.270	0	.605
HYPOTHESI ERRC	43371700					
ERRO Post-hoc co	ontrast of treatm	nent 3 TRT	with control.			
ERRO Post-hoc co	ontrast of treatm FFECT CALLED: POTHESIS		with control.	F	P	

ANOVA on TWOWK/ES

LEVELS ENCOUNTERED DURING PROCESSING ARE:

2.000

TRT

1.000

3.000

4.000

62 MULTIPLE R: 0.447 SQUARED MULTIPLE R: 0.200 DEP VAR: RESP7 ANALYSIS OF VARIANCE F-RATIO Ρ SOURCE SUM-OF-SQUARES DF MEAN-SQUARE 0.005 1291.499 3 430.500 4.824 TRT **ERROR** 5175.807 58 89.238 Post-hoc contrast of treatment 1 with control. TEST FOR EFFECT CALLED: TRT TEST OF HYPOTHESIS SOURCE SS DF MS HYPOTHESIS 9.352 9.352 0.105 0.747 5175.807 58 89.238 **ERROR** Post-hoc contrast of treatment 2 with control. TEST FOR EFFECT CALLED: TRT TEST OF HYPOTHESIS SOURCE DF MS SS HYPOTHESIS 20.524 0.230 0.633 20.524 1 89.238 **ERROR** 5175.807 58 Post-hoc contrast of treatment 3 with control. TEST FOR EFFECT CALLED: TRT TEST OF HYPOTHESIS SOURCE SS DF MS 1007.807 11.293 0.001 HYPOTHESIS 1007.807 5175.807 58 89.238 ERROR

ANOVA on TWOWK/EL

LEVELS ENCOUNTERED DURING PROCESSING ARE:

TRT

1.000

2.000

3.000

4.000

62 MULTIPLE R: 0.476 SQUARED MULTIPLE R: 0.227 DEP VAR: RESP8 N: ANALYSIS OF VARIANCE DF MEAN-SQUARE F-RATIO SOURCE SUM-OF-SQUARES 0.002 TRT 876.321 3 292.107 5.679 **ERROR** 2983.345 58 51.437

Post-hoc contrast of treatment 1 with control. TEST FOR EFFECT CALLED:

TEST OF HYPOTHESIS

SOURCE MS 0.453 29.401 29.401 0.572 . HYPOTHESIS **ERROR** 2983.345 58 51.437

Post-hoc contrast of treatment 2 with control. TEST FOR EFFECT CALLED: TRT

TEST OF HYPOTHESIS

SOURCE DF MS SS 26.433 2983.345 HYPOTHESIS 26.433 0.514 0.476 ERROR 58 51.437

Post-hoc contrast of treatment 3 with control. TRT

TEST FOR EFFECT CALLED:

TEST OF HYPOTHESIS

SOURCE DF MS 505.759 9.833 0.003 HYPOTHESIS 505.759 ERROR 2983.345 58 51.437

THE FOLLOWING RESULTS ARE FOR: TRT = 1.000

TRT	=	1.000	1		
TOTAL OBSERVATIONS:	16		j		
	EL	EC	ES	VE	LE21
N OF CASES MINIMUM MAXIMUM MEAN STANDARD DEV	16 7.000 57.000 39.438 13.515	16 0.000 7.000 1.375 1.962	16 4.000 49.000 33.938 12.091	16 4.000 49.000 32.250 11.653	16 4.000 49.000 32.000 11.673
	нат	TWOWK /			
N OF CASES MINIMUM MAXIMUM MEAN STANDARD DEV	16 4.000 49.000 30.625 11.105	16 4.000 45.000 28.438 10.159	· .		
THE FOLLOWING RESULTS	ARE FOR:	2.000			
TOTAL OBSERVATIONS:	16				
	EL	EC	ES	VE	LE21
N OF CASES MINIMUM MAXIMUM MEAN STANDARD DEV	16 27.000 61.000 47.250 10.939	16 0.000 5.000 0.688 1.302	16 23.000 54.000 42.063 10.063	16 23.000 52.000 40.438 9.480	16 23.000 51.000 40.000 9.452
	HAT	TWOWK	* x		
N OF CASES MINIMUM MAXIMUM MEAN STANDARD DEV	16 20.000 51.000 37.500 9.092	16 17.000 50.000 35.188 9.275			
THE FOLLOWING RESULTS	S ARE FOR:	3.000			1
TOTAL OBSERVATIONS:	16				1
	EL	EC	ES	VE	LE21
N OF CASES MINIMUM MAXIMUM MEAN STANDARD DEV	14 2.000 56.000 41.214 13.841	14 0.000 8.000 1.214 2.190	14 1.000 50.000 35.429 12.439	14 1.000 48.000 33.571 11.940	14 1.000 47.000 33.214 11.995
	НАТ	TWOWK			
N OF CASES MINIMUM MAXIMUM	14 1.000 45.000	14 1.000 42.000		s ·	

MEAN STANDARD DEV	31.500 11.654	29.000 11.031			
THE FOLLOWING RESULT		.000			
TOTAL OBSERVATIONS:	16				
	EL	EC	ES	VE	LE21
N OF CASES MINIMUM MAXIMUM MEAN STANDARD DEV	16 12.000 55.000 32.563 13.296	16 0.000 4.000 0.625 1.088	16 10.000 50.000 27.750 12.979	16 10.000 48.000 26.188 12.287	16 10.000 48.000 25.875 12.339
	HAT	TWOWK			
N OF CASES MINIMUM MAXIMUM MEAN STANDARD DEV	16 9.000 46.000 24.188 12.265	16 3.000 42.000 20.625 11.615			
	ANA OF SQUARES D 1751.365 9677.232 5	3 583.7	RE F 88 3.49	PROBABILI 9 0.0	
SUMMARY STATISTICS	FOR EC			· · · · · · · · · · · · · · · · · · ·	
BARTLETT TEST FOR H					
CHI-SQUARE =		PROBABILITY LLYSIS OF VAR			
SOURCE SUM				PROBABIL	ΙΤΥ
BETWEEN GROUPS WITHIN GROUPS	6 6/1	3 22	14 0.78		
SUMMARY STATISTICS	FOR ES				·
BARTLETT TEST FOR I	IOMOGENEITY OF	GROUP VARIA	NCES		
CHI-SQUARE =	1.027 DF= 3	PROBABILITY	= 0.795	5	
		ALYSIS OF VAR			
SOURCE SUM					
BETWEEN GROUPS WITHIN GROUPS	1656.535 8250.304 5	552.1 8 142.2	70 5.88 247	oz U.	

SUMMARY STATISTICS FOR BARTLETT TEST FOR HOMOGENEITY OF GROUP VARIANCES 1.122 DF= 3 PROBABILITY = 0.772 CHI-SQUARE = ANALYSIS OF VARIANCE SUM OF SQUARES DF MEAN SQUARE PROBABILITY SOURCE 0.009 4.228 BETWEEN GROUPS 1640.616 3 546.872 129.359 WITHIN GROUPS 7502.804 58 SUMMARY STATISTICS FOR LE21 BARTLETT TEST FOR HOMOGENEITY OF GROUP VARIANCES 0.757 CHI-SQUARE = 1.184 DF= 3 PROBABILITY = ANALYSIS OF VARIANCE PROBABILITY SUM OF SQUARES DF MEAN SQUARE SOURCE 4.127 0.010 BETWEEN GROUPS 1609.264 3 536.421 7538.107 58 129.967 WITHIN GROUPS SUMMARY STATISTICS FOR BARTLETT TEST FOR HOMOGENEITY OF GROUP VARIANCES 1.393 DF= 3 PROBABILITY = 0.707 CHI-SQUARE = ANALYSIS OF VARIANCE PROBABILITY SUM OF SQUARES DF MEAN SQUARE SOURCE 0.014 474.685 3.871 BETWEEN GROUPS 1424.054 WITHIN GROUPS 7111.688 58 122.615 SUMMARY STATISTICS FOR TWOWK BARTLETT TEST FOR HOMOGENEITY OF GROUP VARIANCES 0.843 CHI-SQUARE = 0.825 DF= 3 PROBABILITY = ANALYSIS OF VARIANCE PROBABILITY SUM OF SQUARES DF MEAN SQUARE SOURCE 1708.649 569.550 5.126 0.003 BETWEEN GROUPS 3

111.106

6444.125 58

WITHIN GROUPS

## KOLMOGOROV-SMIRNOV ONE SAMPLE TEST USING STANDARD NORMAL DISTRIBUTION

VARIABLE	N-OF-CASES	MAXDIF PROBAB	ILITY (2-TAIL	.)
EL	62.000	0.984	0.000	
EC:	62.000	0.500	0.000	
ES	62.000	0.984	0.000	
VE	62.000	0.984	0.000	
LE21	62.000	0.984	0.000	
HAT	62.000	0.984	0.000	
TWOWK	62.000	0.983	0.000	

LINURON : BOBWHITE QUAIL

TRT1 = CONTROL TRT2 = 50 PPM TRT3 = 100 PPM TRT4 = 300 PPM

CASE 1 1.000 0.218 6.000 24.000 571.000 CASE 2 1.000 0.213 6.000 22.000 571.000 CASE 3 1.000 0.213 6.000 22.000 555.000 646.000 CASE 3 1.000 0.213 6.000 22.000 555.000 646.000 CASE 4 1.000 0.213 6.000 22.000 687.000 CASE 5 1.000 0.212 6.000 22.000 687.000 CASE 6 1.000 0.212 6.000 22.000 687.000 CASE 7 1.000 0.212 6.000 22.000 557.000 CASE 8 1.000 0.237 6.000 22.000 557.000 CASE 8 1.000 0.237 6.000 22.000 587.000 CASE 9 1.000 0.221 6.000 22.000 587.000 CASE 10 1.000 0.214 3.000 19.000 587.000 CASE 11 1.000 0.224 6.000 22.000 587.000 CASE 11 1.000 0.225 6.000 22.000 587.000 CASE 11 1.000 0.224 6.000 22.000 587.000 CASE 11 1.000 0.224 6.000 22.000 587.000 CASE 13 1.000 0.224 6.000 22.000 587.000 CASE 14 1.000 0.225 6.000 22.000 589.000 CASE 15 1.000 0.214 6.000 21.000 588.000 CASE 16 1.000 0.191 6.000 21.000 580.000 707.000 CASE 17 2.000 0.214 6.000 21.000 580.000 707.000 CASE 17 2.000 0.214 6.000 21.000 519.000 CASE 18 2.000 0.216 6.000 21.000 519.000 CASE 19 2.000 0.216 6.000 21.000 519.000 CASE 19 2.000 0.216 6.000 21.000 519.000 CASE 20 2.000 0.216 6.000 22.000 694.000 CASE 20 2.000 0.246 6.000 22.000 694.000 CASE 20 2.000 0.246 6.000 22.000 570.000 CASE 21 2.000 0.246 6.000 22.000 570.000 CASE 22 2.000 0.246 6.000 22.000 570.000 CASE 23 2.000 0.246 6.000 22.000 570.000 CASE 23 2.000 0.226 6.000 22.000 570.000 694.000 CASE 23 2.000 0.226 6.000 22.000 694.000 694.000 CASE 23 2.000 0.226 6.000 22.000 694.000 694.000 CASE 33 3.000 0.225 5.000 18.000 577.000 CASE 34 3.000 0.226 6.000 22.000 694.000 694.000 CASE 34 3.000 0.226 6.000 22.000 694.000 694.000 CASE 34 4.000 0.226 6.000	TRT4 =	300 PPM						
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ANOVA on thick LEVELS ENCOUNTERED DURING PROCESSING ARE:

TRT

1.000

2.000

3.000

	**************************************	N.:	'45	MULTIPLE R: 0.	185 SOLIABED	MIII T I DI F	p• n n34
EP VAR:	THICK	N:	62	MULTIPLE K: U.	10) SQUARED	MOLITEL	. K. 0.05-
		ANALY	sis c	F VARIANCE			
OURCE	SUM-0	F-SQUARES	DF	MEAN-SQUARE	F-RATIO	P	
RT		0.000	3	0.000	0.683	0.566	
RROR		0.013	58	0.000			,
Post-hoc of TEST FOR E	EFFECT CA	LLED:	ent 1 TRT	with control.			
sour	RCE	SS	DF	MS	F		Ρ .
HYPOTHES	SIS ROR	0.000 0.013	1 58	0.000 0.000	0.471		0.495
Post-hoc ( TEST FOR I	EFFECT CA	LLED:	ent 2 TRT	with control.			
SOU	RCE	ss	DF	MS	F		P
HYPOTHE: ER	SIS ROR	0.000 0.013	1 58	0.000	0.264		0.609
Post-hoc TEST FOR TEST OF H	EFFECT CA	LLED:	ent 3 TRT	with control.			***************************************
SOU	RCE	ss	DF	MS	F		P
HYPOTHE ER	SIS ROR	0.000 0.013	1 58	0.000 0.000	0.339		0.563

ANOVA on hatwt
LEVELS ENCOUNTERED DURING PROCESSING ARE:
TRT

1.000

2.000

3.000

DEP VAR:	HATWT	N:	62	MULTIPLE R: 0	.191 SQUARED	MULTIPLE R: (	0.036
		ANALY	sis c	F VARIANCE			
SOURCE	SÚM-O	F-SQUARES	DF	MEAN-SQUARE	F-RATIO	Р	
TRT		0.875	3	0.292	0.732	0.537	
ERROR		23.125	58	0.399			
Post-hoc TEST FOR TEST OF H	EFFECT CA	LLED:	ent 1 TRT	with control.			
sou	RCE	SS	DF	MS	. <b>F</b>	P	
HYPOTHE ER	SIS ROR	0.500 23.125	1 58	0.500 0.399	1.254	0.26	7
			.,,	1	1		
Post-hoc TEST FOR TEST OF H	EFFECT CA	LLED:	ent 2 TRT	with control.			
SOU	IRCE	SS	DF	MS	, <b>F</b>	.P .	
HYPOT HE	SIS	0.029 23.125	1 58	0.029 0.399	0.073	0.78	38
Post-hoc TEST FOR TEST OF H	EFFECT CA	ALLED:	ent 3 TRT	with control.			·
SOL	JRCE	SS	DF	MS	F	P	
HYPOTHE EF	ESIS RROR	0.031 23.125	1 58	0.031 0.399	0.078	0.78	31

ANOVA on survwt LEVELS ENCOUNTERED DURING PROCESSING ARE: TRT

1.000

2.000

3.000

D VAD-	SURVWT	N:	62	MULTIPLE R: 0.	139 SQUARED	MULTIPLE R: 0.0
. VAK	SURVWI		U.	HOLITICE K. O.		
		ANALY	sis c	F VARIANCE		
OURCE	SUM-	OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	<b>P</b>
rrt		7.585	3	2.528	0.379	0.768
ERROR		386.625	58	6.666		
EST FOR		ALLED:	TRT	with control.		
SOL	URCE	SS	DF	MS	F	Р
HYPOTHI E	ESIS RROR	4.500 386.625	1 58	4.500 6.666	0.675	0.415
TEST FOR		ALLED:		with control.		
so	URCE	SS	DF	MS	F	P
НҮРОТН Е	ESIS RROR	6.563 386.625	1 58	6.563 6.666	0.984	0.325
TEST FOR		ALLED:		with control.		
TEST FOR TEST OF	EFFECT C	ALLED:		with control.	F <sub>.</sub>	P

ANOVA on food LEVELS ENCOUNTERED DURING PROCESSING ARE: TRT

1.000

2.000

3.000

DEP VAR:	FOOD	N:	64	MULTIPLE R: 0	.451 SQUARED	MULTIPLE	R: 0.203
		ANALY	sis c	F VARIANCE		,	
SOURCE	SUM-C	F-SQUARES	DF	MEAN-SQUARE	F-RATIO	P	
TRT	.13	6498.797	3	45499.599	5.099	0.003	
ERROR	53	55389.063	60	8923.151			•
Post-hoc co TEST FOR EF TEST OF HYP	FECT CA	ALLED:		with control.			
SOURC	Ε	SS	DF	MS	F		P
HYPOTHESI ERRO	s 4' OR 53!	1977.531 5389.063	1 60	41977.531 8923.151	4.704		0.034
Post-hoc co TEST FOR EF TEST OF HYF	FECT C	ALLED:		with control.		-	
SOURC	E	SS	DF	MS	<b>F</b> .		P
HYPOTHES1 ERRO	S 4	9141.125 5389.063	1 60	49141.125 8923.151	5.507		0.022
Post-hoc co TEST FOR EI TEST OF HYP	FFECT C	ALLED:		with control.			
SOUR	CE .	SS	DF	MS	F		P
HYPOTHES ERRO				134421.125 8923.151	15.064		0.000

THE FOLLOWING RESULTS ARE FOR: 1.000

TOTAL OBSERVATIONS: 16

	THICK	HATWT	SURVWT	FOOD
N OF CASES	16	16	16	16
MINIMUM	0.191	3.000	19.000	497.000
MAXIMUM	0.237	7.000	26.000	707.000
MEAN	0.218	5.938	22.563	578.438
STANDARD DEV	0.012	0.854	2.097	63.700

THE FOLLOWING RESULTS ARE FOR: TRT = 2.000

TOTAL OBSERVATIONS: 16

IUIAL	ORSEKANI	TON2:	10

	THICK	HATWT	SURVWT	FOOD
N OF CASES	16	16	16	16
MINIMUM	0.183	6.000	20.000	503.000
MAXIMUM	0.248	7.000	28.000	763.000
MEAN	0.221	6.188	23.313	650.875
STANDARD DEV	0.018	0.403	1.922	82.462

THE FOLLOWING RESULTS ARE FOR:

TRT = 3.000

TOTAL OBSERVATIONS: 16

	THICK	HATWT	SURVWT	FOOD
N OF CASES	14	. 14	14	16
MINIMUM	0.174	5.000	16.000	274.000
MAXIMUM	0.241	7.000	28,000	861.000
MEAN	0.215	6.000	23.500	656.813
STANDARD DEV	0.018	0.392	3.156	135.041

THE FOLLOWING RESULTS ARE FOR:

TDT = 4.000

TOTAL OBSERVATIONS:

16

	THICK	HATWT	SURVWT.	FOOD
N OF CASES	16	16	16	16
MINIMUM	0.196	5.000	18.000	533.000
MAXIMUM	0.234	7.000	28.000	813.000
MEAN	0.214	5.875	23.125	708.063
STANDARD DEV	0.012	0.719	3.008	81.233

CHI-SQUARE =	5.563 DF=	3 PR	OBABILITY =	0.135	
	ı	ANALY	SIS OF VARIANCE		
SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F	PROBABILITY
BETWEEN GROUPS WITHIN GROUPS		3 58	0.000 0.000	0.683	0.566
SUMMARY STATIST	ICS FOR HAT	WT			
BARTLETT TEST F	OR HOMOGENEITY	OF G	ROUP VARIANCES		
CHI-SQUARE =	12.538 DF=	3 PR	OBABILITY =	0.006	
		ANALY	SIS OF VARIANCE		
SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F	PROBABILITY
BETWEEN GROUPS WITHIN GROUPS			0.292 0.399	0.732	0.537
BARTLETT TEST		OF G	GROUP VARIANCES	0 162	
CHI-SQUARE -			SIS OF VARIANCE		
			MEAN SQUARE		PROBABILITY
BETWEEN GROUPS WITHIN GROUPS	7.585	3			0.768
SUMMARY STATIS	TICS FOR FO	OOD			
BARTLETT TEST	FOR HOMOGENEITY	OF	GROUP VARIANCES		
CHI-SQUARE =	9.439 DF=	3 PI	ROBABILITY =	0.024	
		ANAL'	YSIS OF VARIANCE		
SOURCE	SUM OF SQUARES	S DF	MEAN SQUARE	F	PROBABILITY
BETWEEN GROUPS	136498.79 535389.06	7 3 3 60	45499.599 8923.151	5.099	0.003

,

## KOLMOGOROV-SMIRNOV ONE SAMPLE TEST USING STANDARD NORMAL DISTRIBUTION

VARIABLE	N-OF-CASÉS	MAXDIF P	PROBABILITY (2-T	AIL)
HATWT SURVWT THICK FOOD	62.000 62.000 62.000 64.000	0.99 1.00 0.56 1.00	0.000 0.000 0.000	

LINURON : BOBWHITE QUAIL / MALE WEIGHTS

TRT1 = CONTROL TRT2 = 50 PPM TRT3 = 100 PPM

11/12	_	100	1 1 14
TRT4	=	300	PPM

TRT4 = 300 P	PM	TRT	PREWTM	POSTWTM
CASE 12 CASE 3 CASE 6 CASE 11 CASE 22 CASE 13 CASE 14 CASE 15 CASE 16 CASE 16 CASE 17 CASE 18 CASE 16 CASE 16 CASE 22 CASE 22 CASE 22 CASE 22 CASE 22 CASE 23 CASE 24 CASE 25 CASE 25 CASE 25 CASE 25 CASE 26 CASE 27 CASE 28 CASE 29	5 6 7 8 9 9 0 1 2 3 3 4 5 6 7 8 9 9 0 1 2 3 5 6 7 8 9 9 0 1 2 3 5 6 7 8 9 9 0 1 2 3 5 6 7 8 9 9 0 1 2 3 5 6 7 8 9 9 0 1 2 3 5 6 7 8 9 9 0 1 2 3 5 6 7 8 9 9 0 1 2 3 5 6 7 8 9 9 0 1 2 3 5 6 7 8 9 9 0 1 2 3 5 6 7 8 9 9 0 1 2 3 5 6 7 8 9 9 0 1 2 3 5 6 7 8 9 9 0 1 2 3 5 6 7 8 9 9 0 1 2 5 6 7 8 9 9 0 1 2 5 6 7 8 9 9 0 1 2 5 6 7 8 9 9 0 1 2 5 6 7 8 9 9 0 1 2 5 6 7 8 9 9 0 1 2 5 6 7 8 9 9 0 1 2 5 6 7 8 9 9 0 1 2 5 6 7 8 9 9 0 1 2 5 6 7 8 9 9 0 1 2 5 6 7 8 9 9 0 1	111111111111111222222222222222333333333	199 222 198 192 200 205 200 213 196 207 186 206 210 199 212 180 197 202 183 206 183 203 196 230 218 192 218 204 212 230 185 215 196 200 209 199 220 206 196 223 181 207 220 236 224 229 191 203 188 203 221 189 222 207 194 198	198 251 215 225 219 207 210 220 227 233 190 212 230 209 230 213 208 235 198 239 212 210 206 262 227 231 202 226 213 221 248 210 225 219 214 227 225 218 239 255 222 260 231 247 261 236 203 214 210 207 227 187 219 232 219 253 213 234 214 206 216

LINURON : BOBWHITE QUAIL / MALE WEIGHTS

ANOVA on MALE POST WEIGHTS

LEVELS ENCOUNTERED DURING PROCESSING ARE:

1.000

2.000

3.000

	,					
EP VAR: POSTWTM	N:	62	MULTIPLE R: 0	.726 SQUARED	MULTIPLE	R: 0.527
	ANAL	rsis o	F VARIANCE			
SOURCE SUM-	-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P	
RT PREWTM	1254.157 6729.579	3	418.052 6729.579	2.868 46.175	0.044 0.000	
ERROR	8307.215	57	145.741			
Post-hoc contras TEST FOR EFFECT TEST OF HYPOTHES	CALLED:	ent 1 TRT	with control.			
SOURCE	SS	DF	MS	F		P
HYPOTHESIS ERROR	90.886 8307.215	1 57	90.886 145.741	0.624		0.433
Post-hoc contras TEST FOR EFFECT TEST OF HYPOTHES	CALLED:	nent 2 TRT	with control.			
SOURCE	SS	DF	MS	F		P
HYPOTHESIS ERROR	574.939 8307.215	1 57	574.939 145.741	3.945		0.052
Post-hoc contras TEST FOR EFFECT TEST OF HYPOTHES	CALLED:	ment 3	6 with control			
SOURCE	SS	DF	MS	F		P
HYPOTHESIS ERROR	99.264 8307.215	1 57		0.681		0.413

LINURON : BOBWHITE QUAIL / MALE WEIGHTS

THE FOLLOWING RESULTS ARE FOR: TRT = 1.000

TOTAL OBSERVATIONS: 16

PREWTM	POSTWTM
16	
180.000	190.000
222.000	251.000
201.563	218.063
10.488	14.735
	PREWTM 16 180.000 222.000 201.563 10.488

THE FOLLOWING RESULTS ARE FOR: 2.000

TOTAL OBSERVATIONS: 16

	PREWTM	POSTWTM	
N OF CASES	16	16	
MINIMUM	183.000	198.000	
MAXIMUM	230.000	262.000	
MEAN	202.750	222.375	
STANDARD DEV	15.102	17.948	

THE FOLLOWING RESULTS ARE FOR: TRT = 3.000

TOTAL OBSERVATIONS: 16

	PREWTM	POSTWTM
N OF CASES	16	14
MINIMUM	181.000	214.000
MAXIMUM	236.000	261.000
MEAN	209.688	234.214
STANDARD DEV	14.970	15.904

THE FOLLOWING RESULTS ARE FOR:
TRT = 4.000

TOTAL OBSERVATIONS: 16

	PREWTM	POSTWTM
N OF CASES	16	16
MINIMUM	188.000	187.000
MAXIMUM	229.000	253.000
MEAN	206.125	218.125
STANDARD DEV	12.691	15.620

SUMMARY STATISTICS FOR PREWTM

BARTLETT TEST FOR HOMOGENEITY OF GROUP VARIANCES

CHI-SQUARE =

2.419 DF= 3 PROBABILITY =

0.490

1.183

ANALYSIS OF VARIANCE

SOURCE

SUM OF SQUARES DF MEAN SQUARE

PROBABILITY

BETWEEN GROUPS

641.813 3

213.938

WITHIN GROUPS

10848.125 60

180.802

0.324

SUMMARY STATISTICS FOR POSTWTM

BARTLETT TEST FOR HOMOGENEITY OF GROUP VARIANCES

CHI-SQUARE =

0.616 DF= 3 PROBABILITY =

0.893

3.260

ANALYSIS OF VARIANCE

SOURCE

SUM OF SQUARES DF MEAN SQUARE

F PROBABILITY

BETWEEN GROUPS

2535.592 3

845.197

WITHIN GROUPS

15036.795 58

259.255

0.028

KOLMOGOROV-SMIRNOV ONE SAMPLE TEST USING STANDARD NORMAL DISTRIBUTION

VARIABLE

N-OF-CASES MAXDIF PROBABILITY (2-TAIL)

PREWTM POSTWTM 64.000 62.000 1.000 1.000 0.000 0.000

LINURON : BOBWHITE QUAIL / FEMALE WEIGHTS

TRT1 = CONTROL TRT2 = 50 PPM TRT3 = 100 PPM TRT4 = 300 PPM

IR14 = 300	J PPM	TRT	PREWTF	POSTWTF
CASE CASE CASE CASE CASE CASE CASE CASE	1 2 3 4 5 6 7 8 9 10 1 12 13 14 15 16 7 18 9 10 1 12 22 3 4 5 6 7 8 9 10 1 12 13 14 15 16 7 18 9 10 1 12 22 3 4 5 6 7 8 9 10 1 12 22 3 4 5 6 7 8 9 10 1 12 13 14 15 16 7 18 19 10 10 10 10 10 10 10 10 10 10 10 10 10	111111111111222222222222222233333333333	217 199 197 219 219 227 200 190 190 191 191 181 181	238 287 262 238 238 279 204 267 241 240 225 252 216 236 239 240 261 254 241 284 221 230 247 228 243 243 243 244 245 247 228 236 237 247 228 237 248 249 249 240 241 255 261 275 275 275 275 275 275 275 275

LINURON : BOBWHITE QUAIL / FEMALE WEIGHTS

ANOVA on FEMALE POST WEIGHTS

LEVELS ENCOUNTERED DURING PROCESSING ARE:

TRT

1.000

2.000

3.000

4.000

62 MULTIPLE R: 0.633 SQUARED MULTIPLE R: 0.401 N: DEP VAR: POSTWTF

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	Р
TRT PREWTF	1301.339 9297.003	3 1	433.780 9297.003	1.479 31.692	0.230 0.000
ERROR	16721.399	57	293.358		

Post-hoc contrast of treatment 1 with control. TEST FOR EFFECT CALLED: TRT TEST OF HYPOTHESIS

SOURCE	SS	DF	MS	F	Р
HYPOTHESIS ERROR	278.815 16721.399	1 57	278.815 293.358	0.950	0.334

Post-hoc contrast of treatment 2 with controt.

TEST FOR EFFECT CALLED: TEST OF HYPOTHESIS

SOURCE	SS	DF	MS .	F	P
HYPOTHESIS ERROR	113.662 16721.399	1 57	113.662 293.358	0.387	0.536

Post-hoc contrast of treatment 3 with control. TEST FOR EFFECT CALLED:

TEST OF HYPOTHESIS

SOURCE	ss	DF	MS	F	P
HYPOTHESIS ERROR	283.849 16721.399	1 57	283.849 293.358	0.968	0.329

LINURON : BOBWHITE QUAIL / FEMALE WEIGHTS

THE FOLLOWING RESULTS ARE FOR: 1.000

TOTAL OBSERVATIONS: 16

	PREWTF	POSTWTF
N OF CASES	16	16
MINIMUM	181.000	171.000
MAXIMUM	224.000	270.000
MEAN	198.688	240.563
STANDARD DEV	10.358	25.150

THE FOLLOWING RESULTS ARE FOR:
TRT = 2.000

TOTAL OBSERVATIONS: 16

	PREWIF	POSIWIF
N OF CASES	16	16
MINIMUM	186.000	214.000
MAXIMUM	221.000	287.000
MEAN	202.063	250.375
STANDARD DEV	10.963	22.583

THE FOLLOWING RESULTS ARE FOR: TRT = 3.000

TOTAL OBSERVATIONS: 16

	PREWTF	POSTWTF
N OF CASES	16	14
MINIMUM	185.000	204.000
MAXIMUM	223.000	284.000
MEAN	202.250	242.857
STANDARD DEV	11.869	20.471

THE FOLLOWING RESULTS ARE FOR:

TRT

4.000

TOTAL OBSERVATIONS: 16

	PREWTF	POSTWTF
N OF CASES	16	16
MINIMUM	184.000	209.000
MAXIMUM	227.000	260.000
MEAN	199.250	235.250
STANDARD DEV	11.475	15.128

CHI-SQUARE = 0.301 DF= 3 PROBABILITY = 0.960 ANALYSIS OF VARIANCE F PROBABILITY SUM OF SQUARES DF MEAN SQUARE SOURCE 0.725 165.375 3 7500.375 60 0.441 55.125 BETWEEN GROUPS 125.006 WITHIN GROUPS SUMMARY STATISTICS FOR POSTWTF BARTLETT TEST FOR HOMOGENEITY OF GROUP VARIANCES 0.285 3.793 DF= 3 PROBABILITY = CHI-SQUARE = ANALYSIS OF VARIANCE SUM OF SQUARES DF MEAN SQUARE F PROBABILITY SOURCE

630.323

448.593

0.250

1.405

KOLMOGOROV-SMIRNOV ONE SAMPLE TEST USING STANDARD NORMAL DISTRIBUTION

VARIABLE N-OF-CASES MAXDIF PROBABILITY (2-TAIL)
PREWIF 64.000 1.000 0.000

POSTWIF 62.000 1.000 0.000

1890.969 3

26018.402 58

BETWEEN GROUPS

WITHIN GROUPS

LINURON: BOBWHITE QUAIL

TRT1	=	CONT	rol
TRT2	=	50	PPM
TRT3	=	100	PPM
TDT/		700	DDM

TRT4 = 300 PPM					
	TRT	EL	EC	ES	VE
TRT4 = 300 PPM  CASE 1 CASE 2 CASE 3 CASE 4 CASE 5 CASE 6 CASE 7 CASE 8 CASE 9 CASE 10 CASE 11 CASE 12 CASE 15 CASE 15 CASE 15 CASE 16 CASE 17 CASE 18 CASE 17 CASE 18 CASE 19 CASE 20 CASE 21 CASE 20 CASE 21 CASE 22 CASE 23 CASE 25 CASE 26 CASE 27 CASE 28 CASE 29 CASE 30 CASE 31 CASE 31 CASE 32 CASE 33 CASE 34 CASE 35 CASE 36 CASE 37 CASE 38 CASE 37 CASE 38 CASE 39 CASE 31 CASE 31 CASE 32 CASE 33 CASE 34 CASE 35 CASE 36 CASE 37 CASE 38 CASE 37 CASE 38 CASE 39 CASE 40 CASE 41 CASE 42 CASE 45 CASE 45 CASE 45 CASE 45 CASE 45 CASE 45 CASE 55 CASE 55 CASE 56 CASE 57 CASE 58 CASE 59 CASE 56 CASE 57 CASE 56 CASE 57 CASE 58 CASE 59 CASE 60 CASE 61 CASE 62 CASE 62 CASE 63	TRT	51 37 53 36 40 47 37 44 62 27 57 57 65 55 57 51 9 57 43 50 31 63 33 59 64 58 57 57 64 2 34 38 59 58 49 47 58 58 56 45 64 66 64 67 57 24 23 62 26 48 57 31 23 36 57 57 57 57 57 57 57 57 58 58 58 58 58 58 58 58 58 58 58 58 58	EC 2000440320003327001100000113015110002 .03100310 .0210000011021001105	S 31 47 32 35 39 34 52 24 51 57 50 40 60 53 42 58 29 46 57 57 57 51 57 57 57 57 57 57 57 57 57 57	VE  30 41 29 27 33 29 41 18 40 45 50 42 45 32 47 30 38 24 47 33 51 41 44 46 51 1 21 28 47 37 40 56 41 45 17 16 54 37 17 36 47 27 18 30 12 29

LINURON: BOBWHITE QUAIL

TRT1 = CONTROL TRT2 = 50 PPM TRT3 = 100 PPM TRT4 = 300 PPM

TRT4 =	300 PPM		TRT	LE21	нат	TWOWK
CASE CASE CASE CASE CASE CASE CASE CASE	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22 23 24 25 26 27 28		TRT	29 41 29 26 33 29 41 18 39 45 50 42 44 30 47 28 36 24 52 25 48 47 40 47 31 50	28 40 29 23 32 27 29 39 18 36 40 41 30 47 27 33 21 52 24 45 42 38 42 30 45	28 37 25 23 32 26 28 33 16 30 40 45 36 39 28 4 47 26 32 18 51 22 41 40 38 32 28 42
CASE CASE	29 30		2 2	41 44	39 42	35 42
CASE	31 72		2	46 50	41 48	39 46
CASE CASE	32 33		۲ ۲	1	1	1
CASE	34		3	19	18	18
CASE	35		. 3	•	•	
CASE	36		3	27	23	19
CASE	37	•	3	46	43	41
CASE	38		3	42	40	37
CASE	39		3	41	40	39
CASE	40		. 3	33 41	31 36	30 30
CASE	41 42		3	52	52	48
CASE	43		3			•
CASE	44		3	48	48	44
CASE			3	37	35	33
CASE	46		3	37	34	<b>3</b> 0 35
CASE CASE	47 48		3 3	40 55	39 51	48
CASE	49		4	41	40	31
CASE	50		4	43	40	36
CASE	51		. 4	15	15	14
CASE	52		4	16	13	11
CASE CASE	53 54		4 4	54 37	52 35	48 <b>3</b> 4
CASE	55		4	17	12	11
CASE	56		4	36	35	30
CASE	57		4	47	45	36
CASE	58		4	26	24	23
CASE	59 60		4	18 30	16 28	12 28
CASE	61		4	12	12	5
CASE	62		4	29	28	24
CASE	63		4	40	39	36
CASE	64		4	14	12	8

ANOVA on SQR(Eggs Laid)

LEVELS	ENCOUNTERED	DURING	PROCESSING	ARE:

1.00	00	2.000		3.000	4.000	
EP VAR:	SEL	N:	62	MULTIPLE R:	0.353 SQUARE	MULTIPLE R: 0.125
		ANALY	sis c	F VARIANCE		
SOURCE	SUM-0	F-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
rrt		13.128	3	4.376	2.757	0.050
ERROR		92.069	58	1.587		
Post-hoc co TEST FOR EF TEST OF HYP	FECT CA	LLED:		with control	-	
SOURC	E	SS	DF	MS	F	<b>.</b> P
HYPOTHESI ERRO	S R	3.043 92.069	1 58	3.043 1.587	1.917	0.171
Post-hoc co TEST FOR EF TEST OF HYP	FECT CA	ALLED:		with control	•	
SOURC	E	ss	DF	MS	F	P
HYPOTHESI ERRO		0.003 92.069		0.003 1.587	0.002	0.966
	FECT CA	ALLED:		with control	•	
TEST FOR EF TEST OF HYP						
		ss	DF	MŞ	F	Р

ANOVA on SQR(Eggs Cracked)
LEVELS ENCOUNTERED DURING PROCESSING ARE:

N:

1.000 2.000 3.000

DEP VAR:

SEC

4.000

62 MULTIPLE R: 0.168 SQUARED MULTIPLE R: 0.028

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	Р
TRT	1.208	3	0.403	0.565	0.640
ERROR	41.342	58	0.713		

Post-hoc contrast of treatment 1 with control. TEST FOR EFFECT CALLED:

TEST OF HYPOTHESIS

SOURCE	SS	DF.	MS	F	P
HYPOTHESIS ERROR	0.530 41.342	1 58	0.530 0.713	0.743	0.392

Post-hoc contrast of treatment 2 with control.

TEST FOR EFFECT CALLED:

TEST OF HYPOTHESIS

SOURCE	SS	DF	MS	F	P
HYPOTHESIS ERROR	0.029 41.342	1 58	0.029 0.713	0.040	0.841

Post-hoc contrast of treatment 3 with control.

TRT

TEST FOR EFFECT CALLED:

TEST OF HYPOTHESIS

SOURCE	SS	DF	MS	F	P
HYPOTHESIS ERROR	0.923 41.342	1 58	0.923 0.713	1.295	0.260

ANOVA on SQR(Eggs Set)
LEVELS ENCOUNTERED DURING PROCESSING ARE:

TRT

3.000

1.000 2.000 4.000

DEP VAR:

SES

N:

62 MULTIPLE R: 0.368 SQUARED MULTIPLE R: 0.135

ANALYSIS OF VARIANCE

SUM-OF-SQUARES DF MEAN-SQUARE F-RATIO SOURCE 14.429 3 4.810 3.030 0.036 TRT

92.071 1.587 **ERROR** 

Post-hoc contrast of treatment 1 with control.

TEST FOR EFFECT CALLED:

TEST OF HYPOTHESIS

SOURCE SS DF MS 0.133 3.685 2.321 HYPOTHESIS 3.685 1.587 92.071 58 ERROR

Post-hoc contrast of treatment 2 with control. TRT

TEST FOR EFFECT CALLED:

TEST OF HYPOTHESIS

SOURCE SS DF MS 0.983 HYPOTHESIS 0.001 0.001 0.000 ERROR 92.071 58 1.587

Post-hoc contrast of treatment 3 with control.

TEST FOR EFFECT CALLED: TRT

TEST OF HYPOTHESIS

SOURCE SS DF MS HYPOTHESIS 2.223 0.141 3.529 1 3.529 ERROR 92.071 58 1.587

ANOVA on SQR(Viable Embryos)
LEVELS ENCOUNTERED DURING PROCESSING ARE:

N:

TRT

3.000 1.000 2.000

DEP VAR:

SVE

4.000

62 MULTIPLE R: 0.317 SQUARED MULTIPLE R: 0.101

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
TRT	9.860	3	3.287	2.166	0.102
ERROR	88.024	58	1.518		

Post-hoc contrast of treatment 1 with control.

TEST FOR EFFECT CALLED:

TEST OF HYPOTHESIS

SOURCE	SS	DF	MS	F	Р
HYPOTHESIS ERROR	4.596 88.024	1 58	4.596 1.518	3.028	0.087

Post-hoc contrast of treatment 2 with control. TEST FOR EFFECT CALLED: TRT TEST OF HYPOTHESIS

		•			
SOURCE	SS	DF	MS	F	Р
HYPOTHESIS	0.524	1	0.524	0.345	0.559
ERROR	88.024	58	1.518		

Post-hoc contrast of treatment 3 with control.

TEST FOR EFFECT CALLED: TEST OF HYPOTHESIS

SOURCE	SS	DF	MS	F	P
HYPOTHESIS ERROR	0.787 88.024	1 58	0.787 1.518	0.518	0.474

ANOVA on SQR(21-day Live Embryos)
LEVELS ENCOUNTERED DURING PROCESSING ARE:
TRT

2.000 3.000 1.000

DEP VAR:	SLE21	N:	UL	HOLITEL K. O.	JIO SWOMED	MULTIPLE R: 0.0
		ANALY	sis c	F VARIANCE		
SOURCE	SUM-	OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
TRT		9.406	3	3.135	2.051	0.117
ERROR		88.656	58	1.529		
Post-hoc o TEST FOR E TEST OF HY	FFECT C	ALLED:	ent 1 TRT	with control.		
SOUR	CE	SS	DF	MS	F	P
HYPOTHES ERR		4.279 88.656	1 58	4.279 1.529	2.799	0.100
Post-hoc o TEST FOR E TEST OF HY	FFECT C	ALLED:	ent 2 TRT	with control.		
SOUR	RCE -	SS	DF	MS	F	· P
HYPOTHES ERF		0.500 88.656	1 58	0.500 1.529	0.327	0.570
Post-hoc of TEST FOR E	FFECT C	CALLED:	ent 3 TRT	with control.		
SOUR	RCE	SS	DF	MS	<b>F</b> .	Р
HYPOTHES ERF		0.804 88.656	1 . 58	0.804 1.529	0.526	0.471

SHAT

ANOVA on SQR(Hatched)

LEVELS ENCOUNTERED DURING PROCESSING ARE:

TRT

DEP VAR:

3.000 4.000 1.000 2.000

N:

ANALYSIS OF VARIANCE

SOURCE SUM-OF-SQUARES DF MEAN-SQUARE F-RATIO 2.978 1.961 0.130 8.935 3 ⊂ TRT

88.088 58 1.519 **ERROR** 

Post-hoc contrast of treatment 1 with control.

TEST FOR EFFECT CALLED:

TEST OF HYPOTHESIS

SOURCE MS SS DF 0.140 HYPOTHESIS 3.408 3.408 2,244 88.088 1.519 ERROR 58

62 MULTIPLE R: 0.303 SQUARED MULTIPLE R: 0.092

Post-hoc contrast of treatment 2 with control.

TEST FOR EFFECT CALLED:

TEST OF HYPOTHESIS

Ρ SOURCE SŞ DF MS HYPOTHESIS 0.338 0.222 0.639 0.338 88.088 58 1.519 ERROR

Post-hoc contrast of treatment 3 with control.

TEST FOR EFFECT CALLED: TRT

TEST OF HYPOTHESIS

SOURCE SS DF MS 0.383 HYPOTHESIS 1.172 0.772 1.172 1 88.088 1.519 **ERROR** 58

ANOVA on SQR(Two week Survivors)
LEVELS ENCOUNTERED DURING PROCESSING ARE:

3.000

1.000

DEP VAR: STWOWK

2.000

N:

4.000

62 MULTIPLE R: 0.353 SQUARED MULTIPLE R: 0.125

	ANALYSIS	OF	VARIANCE

SUM-OF-SQUARES DF MEAN-SQUARE F-RATIO SOURCE TRT 12.456 3 4.152 2.753 0.051 1.509 **ERROR** 87.493 58

Post-hoc contrast of treatment 1 with control. TEST FOR EFFECT CALLED: TRT

TEST OF HYPOTHESIS

F SOURCE SS DF MS 2.250 0.139 3.395 3.395 HYPOTHESIS **ERROR** 87.493 58 1.509

Post-hoc contrast of treatment 2 with control. TEST FOR EFFECT CALLED:  $\ensuremath{\mathsf{TRT}}$ 

TEST OF HYPOTHESIS

F SOURCE SS DF MS 0.689 HYPOTHESIS 0.244 0.162 0.244 1.509 ERROR 87.493 58

Post-hoc contrast of treatment 3 with control.

TEST FOR EFFECT CALLED:

TEST OF HYPOTHESIS

SOURCE SS DF MS HYPOTHESIS 2.711 2.711 1.797 0.185 1 **ERROR** 87.493 58 1.509

ANOVA on EC/EL

LEVELS ENCOUNTER	ED DURING PR	OCESS	ING ARE:		
1.000	2.000		3.000	4.000	
DEP VAR: RESP1		62 (SIS (	MULTIPLE R:	0.141 SQUARED	MULTIPLE R: 0.020
SOURCE SUM	I-OF-SQUARES		MEAN-SQUARE	F-RATIO	P
TRT SOL	59.320	3	19.773	0.392	0.760
ERROR	2928.840		50.497	01372	
Post-hoc contras TEST FOR EFFECT TEST OF HYPOTHES	CALLED:	ent 1 TRT	with control	· ·	
SOURCE	SS	DF	MS	F	P
HYPOTHESIS ERROR	46.632 2928.840	1 58	46.632 50.497	0.923	0.341
Post-hoc contras TEST FOR EFFECT TEST OF HYPOTHES	CALLED:	ent 2 TRT	with control	-	
SOURCE	SS	DF	MS	· F	P
HYPOTHESIS ERROR	1.202 2928.840	1 58	1.202 50.497	0.024	0.878
Post-hoc contract TEST FOR EFFECT TEST OF HYPOTHES	CALLED:	ent 3 TRT	with control		
SOURCE	SS	DF	MS	F	P
HYPOTHESIS ERROR	22.955 2928.840	1 58	22.955 50.497	0.455	0.503

ANOVA on VE/ES

HYPOTHESIS ERROR 1410.518 3002.669

1 58 1410.518 51.770

TRT 1.000	2.000		3.000	4.000		
11000						
DEP VAR: RES	SP2 N:	62	MULTIPLE R:	0.601 SQUARED	MULTIPLE R: 0.361	
	ANALY	SIS C	F VARIANCE			
SOURCE S	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P	
TRT	1693.769	3	564.590	10.906	0.000	
ERROR	3002.669	58	51.770			V · · ·
Post-hoc contr TEST FOR EFFEC	rast of treatme	nt 1 TRT	with control.			
TEST OF HYPOTH	HESIS					
SOURCE	SS	DF	MS	F	<b>P</b> '	
HYPOTHESIS ERROR	83.138 3002.669	1 58	83.138 51.770	1.606	0.210	
Post-hoc conti TEST FOR EFFE TEST OF HYPOTI		ent 2 TRT	with control.		e e e e e e e e e e e e e e e e e e e	
SOURCE	SS	DF	MS	F	P	
HYPOTHESIS ERROR	649.772 3002.669	1 58	649.772 51.770	12.551	0.001	T2 > C
Post-hoc cont TEST FOR EFFE TEST OF HYPOT		ent 3 TRT	with control.			·

27.246

ANOVA on LE21/VE

LEVELS ENCOUNTERED	DURING	PROCESSING	ARE:

TRT

1.000

2.000

4.000

DEP VAR: RESP3 N:

62 MULTIPLE R: 0.150 SQUARED MULTIPLE R: 0.023

## ANALYSIS OF VARIANCE

3.000

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	Р	
TRT	45.899	3	15.300	0.448	0.720	
ERROR	1982.447	58	34.180			
		ent 1 TRT	with control.			
SOURC	E SS	DF	MS	F	Р	
HYPOTHESI ERRO		1 58	32.821 34.180	0.960	0.331	
	ntrast of treatme FECT CALLED: OTHESIS	ent 2 TRT	with control.			
SOURC	E SS	DF	MS	F	P	
HYPOTHESI ERRO		1 58	2.296 34.180	0.067	0.796	

Post-hoc contrast of treatment 3 with control. TEST FOR EFFECT CALLED: TRT TEST OF HYPOTHESIS

1201 01 111101112	.5.0				
SOURCE	SS	DF	MS	F	P
HYPOTHESIS ERROR	0.066 1982.447	1 58	0.066 34.180	0.002	0.965

ANOVA on HAT/LE21

LEVELS	ENCOUNTERED	DURING	PRUCESSING	AKE:
TRT				

1.000	2.000		3.000	4.000	· · · · · · · · · · · · · · · · · · ·
DEP VAR: RESP4	N:	62	MULTIPLE R:	0.263 SQUARED	MULTIPLE R: 0.069
*	ANALY	rsis c	F VARIANCE		
SOURCE SUM	I-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
TRT .	238.686	3	79.562	1.442	0.240
ERROŘ	3201.051	58	55.191		en e
Post-hoc contras TEST FOR EFFECT TEST OF HYPOTHES	CALLED:	ent 1 TRT	with control	•	:
SOURCE	SS	DF	MS	F	P
HYPOTHESIS ERROR	149.330 3201.051	1 58	149.330 55.191	2.706	0.105
Post-hoc contras TEST FOR EFFECT TEST OF HYPOTHES	CALLED:	ent 2 TRT	with control	-	
SOURCE	SS	DF	MS	F	P
HYPOTHESIS ERROR	56.267 3201.051	1 58	56.267 55.191	1.020	0.317
Post-hoc contras TEST FOR EFFECT TEST OF HYPOTHES	CALLED:	ent 3 TRT	with control	-	
SOURCE	SS	DF	MS	· · · · · · · · · · · · · · · · · · ·	Р
HYPOTHESIS ERROR	202.422 3201.051	1 58	202.422 55.191	3.668	0.060

ANOVA on TWOWK/HAT

LEVELS	ENCOUNTERED	DURING	PROCESSING	ARE:

TRT

DEP VAR:

1.000

2.000

3.000

4.000

ANALYSIS OF VARIANCE

3

RESP5

SUM-OF-SQUARES

DF MEAN-SQUARE

F-RATIO

62 MULTIPLE R: 0.395 SQUARED MULTIPLE R: 0.156

Ρ

TRT

SOURCE

904.835

301.612

3.572

**ERROR** 

4897.413 58 84.438

0.019

Post-hoc contrast of treatment 1 with control. TRT

TEST FOR EFFECT CALLED:

TEST OF HYPOTHESIS

SOURCE

SS

DF

58

0.034

HYPOTHESIS **ERROR** 

2.897 4897.413

2.897 84.438

MS

0.854

Post-hoc contrast of treatment 2 with control. TEST FOR EFFECT CALLED:  $\ensuremath{\mathsf{TRT}}$ 

TEST OF HYPOTHESIS

SOURCE

SS

DF

HYPOTHESIS **ERROR** 

32.273 4897.413

58

32.273 84.438

MS

0.382

0.539

Post-hoc contrast of treatment 3 with control.

TEST FOR EFFECT CALLED: TEST OF HYPOTHESIS

SOURCE

MS ·

HYPOTHESIS

708.164

DF

0.005

ERROR

4897.413

58

708.164 84.438

ANOVA on HAT/ES

LEVELS ENCOUNTERED DURING PROCESSING ARE: TRT						· · · · · · · · · · · · · · · · · · ·		
1.000	2.000		3.000	4.000			* .	
DEP VAR: RESE	P6 N:	62	MULTIPLE R:	0.393 SQUARED	MULTIPLE	R: 0.154		
,	ANALY	rsis (	OF VARIANCE					
SOURCE SU	JM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P	4.		
TRT	648.054	3	216.018	3.529	0.020			
ERROR	3550.079	58	61.208					
Post-hoc contra TEST FOR EFFECT TEST OF HYPOTHE	T CALLED:	ent 1 TRT	with control.					
SOURCE	SS	DF	MS	F		P		
HYPOTHESIS ERROR	9.832 3550.079	1 58	9.832 61.208	0.161		0.690		
Post-hoc contra TEST FOR EFFEC TEST OF HYPOTHI	T CALLED:	ent 2 TRT	with control.					
SOURCE	SS	DF	MS	F		P		
HYPOTHESIS ERROR	398.473 3550.079	1 58	398.473 61.208	6.510		0.013	12 > 0	
Post-hoc contri TEST FOR EFFEC TEST OF HYPOTH	T CALLED:	ent 3 TRT	with control.					
SOURCE	SS	DF	MS	F		P		
HYPOTHESIS ERROR	354.334 3550.079	1 58	354.334 61.208	5.789		0.019	T3 > C	

ANOVA on TWOWK/ES

LEVELS	ENCOUNTERED	DURING	PROCESSING	ARE:

TRT

1.000

2.000

3.000

DEP VAR: RESP7

N:

......

4.000

62 MULTIPLE R: 0.291 SQUARED MULTIPLE R: 0.085

ANALYSIS OF VARIANCE

 SOURCE
 SUM-OF-SQUARES
 DF
 MEAN-SQUARE
 F-RATIO
 P

 TRT
 353.179
 3
 117.726
 1.786
 0.160

ERROR 3822.741 58 65.909

Post-hoc contrast of treatment 1 with control.

TEST FOR EFFECT CALLED: TRT

TEST OF HYPOTHESIS

SOURCE SS DF MS F P

HYPOTHESIS 14.410 1 14.410 0.219 0.642
ERROR 3822.741 58 65.909

Post-hoc contrast of treatment 2 with control.

TEST FOR EFFECT CALLED:

TEST OF HYPOTHESIS

SOURCE SS DF MS F P

HYPOTHESIS 240.483 1 240.483 3.649 0.061

ERROR 3822.741 58 65.909

Post-hoc contrast of treatment 3 with control.

TEST FOR EFFECT CALLED:

TEST OF HYPOTHESIS

SOURCE SS DF MS F P

HYPOTHESIS 3.208 1 3.208 0.049 0.826
ERROR 3822.741 58 65.909

ANOVA on TWOWK/EL

SOURCE

HYPOTHESIS ERROR SS

12.810 2605.245 DF

58

MS

12.810 44.918 0.285

-OF-SQUARES 151.650 2605.245	DF 3 58 ent 1 TRT	MULTIPLE R: F VARIANCE MEAN-SQUARE 50.550 44.918 with control	F-RATIO 1.125	MULTIPLE R: 0.055  P 0.346
-OF-SQUARES 151.650 2605.245  t of treatme CALLED: IS	DF 3 58 ent 1 TRT	MEAN-SQUARE 50.550 44.918 with control	1.125	0.346
151.650 2605.245 at of treatme CALLED: IS	3 58 ent 1 TRT	50.550 44.918 with control	1.125	0.346
2605.245  It of treatme CALLED: IS SS	58 ent 1 TRT	44.918	•	
t of treatme CALLED: IS	ent 1 TRT DF	with control	•	P
CALLED: IS	TRT DF		•	Р
50 042				
2605.245	1 58	50.042 44.918	1.114	0.296
	ent 2 TRT	with control	•	
SS	DF	MS	F	<b>P</b> 1
35.660 2605.245	1 58	35.660 44.918	0.794	0.377
				<del></del>
	35.660 2605.245	35.660 1 2605.245 58	35.660 1 35.660 2605.245 58 44.918 at of treatment 3 with control	35.660 1 35.660 0.794 2605.245 58 44.918

THE FOLLOWING RESULTS ARE FOR: TRT = 1.000

TOTAL OBSERVATIONS:	16				
<b>×</b>	EL	EC	ES	VE	LE21
N OF CASES MINIMUM MAXIMUM MEAN STANDARD DEV	16 9.000 65.000 45.875 14.532	16 0.000 7.000 1.625 2.029	16 6.000 57.000 39.625 12.966	16 4.000 50.000 33.438 11.524	16 4.000 50.000 33.063 11.509
. /	нат	TWOWK			
N OF CASES MINIMUM MAXIMUM MEAN STANDARD DEV	16 4.000 50.000 31.625 10.905	16 4.000 45.000 29.375 9.905			
THE FOLLOWING RESULT		.000			
TOTAL OBSERVATIONS:	16				
	EL	EC	ES	VE	LE21
N OF CASES MINIMUM MAXIMUM MEAN STANDARD DEV	16 31.000 66.000 53.625 11.395	16 0.000 5.000 0.875 1.360	16 28.000 59.000 47.625 10.430	16 24.000 54.000 41.750 9.377	16 24.000 52.000 41.000 9.359
	НАТ	TWOWK			
N OF CASES MINIMUM MAXIMUM MEAN STANDARD DEV	16 21.000 52.000 38.500 9.033	16 18.000 51.000 36.188 9.268			
THE FOLLOWING RESULTER		3.000			
TOTAL OBSERVATIONS:	16				
	EL	EC	ES	VE	LE21
N OF CASES MINIMUM MAXIMUM MEAN STANDARD DEV	14 2.000 64.000 47.143 15.595	14 0.000 10.000 1.571 2.681	14 1.000 58.000 40.500 14.081	14 1.000 56.000 37.500 13.899	14 1.000 55.000 37.071 14.014

				,	
	HAT	TWOWK			
N OF CASES MINIMUM MAXIMUM MEAN STANDARD DEV	14 1.000 52.000 35.071 13.731	14 1.000 48.000 32.357 12.882			
THE FOLLOWING RESULT	S ARE FOR:	4.000			
TOTAL OBSERVATIONS:	16				
	EL	EC	ES	VE LE	21
N OF CASES MINIMUM MAXIMUM MEAN STANDARD DEV	16 15.000 62.000 37.438 14.850	16 0.000 5.000 0.750 1.291	16 12.000 56.000 32.000 14.422	16 12.000 54.000 30.063 13.379	16 12.000 54.000 29.688 13.340
	нат	TWOWK			
N OF CASES MINIMUM MAXIMUM MEAN STANDARD DEV	16 12.000 52.000 27.875 13.401	16 5.000 48.000 24.188 12.671			
SUMMARY STATISTICS	FOR E	·			
BARTLETT TEST FOR HO			ICES		
		3 PROBABILITY :			
OHI OGOME -		NALYSIS OF VAR			
SOURCE SUM (		DF MEAN SQUAI		PROBABILITY	
BETWEEN GROUPS WITHIN GROUPS	2121.832 11585.152	3 707.2 58 199.7		0.020	
SUMMARY STATISTICS	FOR E	C			
BARTLETT TEST FOR H	OMOGENEITY	OF GROUP VARIA	NCES		
CHI-SQUARE = 1	0.008 DF=	3 PROBABILITY	0.019		
	A	NALYSIS OF VAR	IANCE		
SOURCE SUM	OF SQUARES	DF MEAN SQUA	RE F	PROBABILITY	
BETWEEN GROUPS WITHIN GROUPS	9.749 207.929	3 3.2 58 3.5		0.444	
SUMMARY STATISTICS	FOR E	:S			

BARTLETT TEST FOR HOMOGENEITY OF GROUP VARIANCES

CHI-SQUARE = 1.735 DF= 3 PROBABILITY = 0.629

## ANALYSIS OF VARIANCE

SOURCE SUM OF SQUARES DF MEAN SQUARE	F PROBABILITY
BETWEEN GROUPS 1959.597 3 653.199 WITHIN GROUPS 9851.000 58 169.845	3.846 0.014
SUMMARY STATISTICS FOR VE	
BARTLETT TEST FOR HOMOGENEITY OF GROUP VARIANCES	
CHI-SQUARE = 2.526 DF= 3 PROBABILITY =	0.471
ANALYSIS OF VARIANCE	
SOURCE SUM OF SQUARES DF MEAN SQUARE	F PROBABILITY
BETWEEN GROUPS 1221.093 3 407.031 WITHIN GROUPS 8507.375 58 146.679	2.775 0.049
SUMMARY STATISTICS FOR LE21	
BARTLETT TEST FOR HOMOGENEITY OF GROUP VARIANCES	
CHI-SQUARE = 2.601 DF= 3 PROBABILITY =	0.457
ANALYSIS OF VARIANCE	
SOURCE SUM OF SQUARES DF MEAN SQUARE	F PROBABILITY
BETWEEN GROUPS 1146.390 3 382.130 WITHIN GROUPS 8523.304 58 146.954	2.600 0.061
SUMMARY STATISTICS FOR HAT	
BARTLETT TEST FOR HOMOGENEITY OF GROUP VARIANCES	
CHI-SQUARE = 3.084 DF= 3 PROBABILITY =	0.379
ANALYSIS OF VARIANCE	
SOURCE SUM OF SQUARES DF MEAN SQUARE	F PROBABILITY
BETWEEN GROUPS 991.846 3 330.615 WITHIN GROUPS 8152.429 58 140.559	2.352 0.082
SUMMARY STATISTICS FOR TWOWK	
BARTLETT TEST FOR HOMOGENEITY OF GROUP VARIANCES	
CHI-SQUARE = 2.357 DF= 3 PROBABILITY =	0.502
ANALYSIS OF VARIANCE	•
SOURCE SUM OF SQUARES DF MEAN SQUARE	F PROBABILITY
BETWEEN GROUPS 1223.596 3 407.865 WITHIN GROUPS 7325.839 58 126.308	3.229 0.029

## KOLMOGOROV-SMIRNOV ONE SAMPLE TEST USING STANDARD NORMAL DISTRIBUTION

VARIABLE	N-OF-CASES	MAXDIF PROBA	BILITY (2-TAIL)
EL	62.000	0.984	0.000
EC	62.000	0.500	0.000
ES	62.000	0.984	0.000
VE	62.000	0.984	0.000
LE21	62.000	0.984	0.000
HAT	62.000	0.984	0.000
TWOWK	62.000	0.984	0.000

LINURON : BOBWHITE QUAIL

TRT1 = CONTROL TRT2 = 50 PPM TRT3 = 100 PPM TRT4 = 300 PPM

TRT THICK HATWT SURV  CASE 1 1.000 0.218 6.000	WT FOOD 24.000 571.000
0.00 4 4 0.00 0.249 4 0.00	2/ 000 571 000
0405 4 4 1000 0 249 4 000	2/ 000 571 000
	25.000 646.000
CASE 3 1.000 0.213 6.000	23.000 529.000
	24.000 565.000
	22.000 687.000
	22.000 503.000
	24.000 615.000
CASE 8 1.000 0.237 6.000	23.000 557.000
	20.000 587.000
	19.000 511.000
	22.000 624.000
	22.000 549.000
	25.000 707.000
CASE 15 1.000 0.214 6.000	26.000 497.000
CASE 16 1.000 0.191 6.000	19.000 519.000
CASE 17 2.000 0.212 6.000	23.000 763.000
CASE 18 2.000 0.216 6.000	21.000 728.000
CASE 19 2.000 0.246 6.000	26.000 510.000
	20.000 694.000
CASE 21 2.000 0.221 7.000	
CASE 22 2.000 0.226 6.000	22.000 721.000
CASE 23 2.000 0.245 6.000	25.000 587.000
CASE 24 2.000 0.213 6.000	24.000 503.000
CASE 25 . 2.000 0.227 6.000	24.000 614.000
CASE 26 2.000 0.201 6.000	22.000 573.000
CASE 27 2.000 0.212 6.000	22,000 699.000
	23.000 706.000
	23.000 608.000
CASE 29 2.000 0.198 7.000	
CASE 30 2.000 0.183 6.000	24.000 708.000
CASE 31 2.000 0.225 7.000	23.000 722.000
CASE 32 2.000 0.248 6.000	28.000 577.000
CASE 33 3.000 0.225 5.000	16.000 768.000
CASE 34 3.000 0.241 7.000	27.000 573.000
CASE 35 3.000	. 503.000
CASE 36 3.000 0.208 6.000	27.000 786.000
	26.000 609.000
	and the second s
CASE 38 3.000 0.174 6.000	22.000 620.000
CASE 39 3.000 0.234 6.000	21.000 654.000
CASE 40 3.000 0.198 6.000	28.000 631.000
CASE 41 3.000 0.201 6.000	22.000 762.000
CASE 42 3.000 0.221 6.000	22.000 676.000
CASE 43 3.000 .	. 274.000
	23.000 726.000
	26.000 721.000
CASE 46 3.000 0.224 6.000	
CASE 47 3.000 0.211 6.000	23.000 861.000
CASE 48 3.000 0.213 6.000	22.000 687.000
CASE 49 4.000 0.220 6.000	23.000 739.000
CASE 50 4.000 0.198 6.000	22.000 771.000
CASE 51 4.000 0.228 7.000	24.000 761.000
CASE 52 4.000 0.222 6.000	28.000 647.000
	27.000 649.000
CASE 54 4.000 0.196 6.000	20.000 688.000
CASE 55 4.000 0.208 5.000	20.000 745.000
CASE 56 4.000 0.209 5.000	19.000 813.000
CASE 57 4.000 0.201 5.000	23.000 764.000
CASE 58 4.000 0.218 6.000	26.000 581.000
CASE 59 4.000 0.198 5.000	21.000 533.000
CASE 60 4.000 0.213 7.000	23.000 758.000
	27.000 696.000
CASE 62 4.000 0.218 7.000	
CASE 63 4.000 0.217 6.000	24.000 779.000
CASE 64 4.000 0.222 5.000	18.000 785.000

ANOVA on thick

LEVELS ENCOUNTERED DURING PROCESSING ARE:

N:

TRT

1.000 2.000

4.000

DEP VAR: T

THICK

62 MULTIPLE R: 0.185 SQUARED MULTIPLE R: 0.034

ANALYSIS OF VARIANCE

3.000

 SOURCE
 SUM-OF-SQUARES
 DF
 MEAN-SQUARE
 F-RATIO
 P

 TRT
 0.000
 3
 0.000
 0.683
 0.566

 ERROR
 0.013
 58
 0.000

Post-hoc contrast of treatment 1 with control.

TEST FOR EFFECT CALLED:

TRT

TEST OF HYPOTHESIS

 
 SOURCE
 SS
 DF
 MS
 F
 P

 HYPOTHESIS ERROR
 0.000
 1
 0.000
 0.471
 0.495

Post-hoc contrast of treatment 2 with control.

TEST FOR EFFECT CALLED:

TEST OF HYPOTHESIS

 
 SOURCE
 SS
 DF
 MS
 F
 P

 HYPOTHESIS ERROR
 0.000
 1
 0.000
 0.264
 0.609

Post-hoc contrast of treatment 3 with control.

TEST FOR EFFECT CALLED: TRT

TEST OF HYPOTHESIS

SOURCE SS DF MS F P

HYPOTHESIS 0.000 1 0.000 0.339 0.563
ERROR 0.013 58 0.000

ANOVA on hatwt LEVELS ENCOUNTERED DURING PROCESSING ARE:

2.000 1.000

DEP VAR: HATWT

3.000

4.000

62 MULTIPLE R: 0.191 SQUARED MULTIPLE R: 0.036

ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P
TRT	0.875	3 ′	0.292	0.732	0.537
ERROR	23.125	58	0.399		

Post-hoc contrast of treatment 1 with control. TEST FOR EFFECT CALLED: TRT

TEST OF HYPOTHESIS

SOURCE	SS	DF	MS	F .	Р
HYPOTHESIS ERROR	0.500 23.125	1 58	0.500 0.399	1.254	0.267

Post-hoc contrast of treatment 2 with control. TEST FOR EFFECT CALLED: TRT TEST OF HYPOTHESIS

SOURCE	SS	DF	MS	F .	P
HYPOTHESIS ERROR	0.029 23.125	1 58	0.029 0.399	0.073	0.788

Post-hoc contrast of treatment 3 with control.

TEST FOR EFFECT CALLED: TRT

TES

EST OF HYPOTHES	SIS					
SOURCE	SS	DF	MS	F	Р	
HYPOTHESIS ERROR	0.031 23.125	1 58	0.031 0.399	0.078	0.781	

ANOVA on survwt LEVELS ENCOUNTERED DURING PROCESSING ARE:

TRT

1.000

2.000

4.000

DEP VAR: SURVWT

N:

62 MULTIPLE R: 0.139 SQUARED MULTIPLE R: 0.019

ANALYSIS OF VARIANCE

3.000

DF MEAN-SQUARE F-RATIO Ρ SOURCE SUM-OF-SQUARES 7.585 3 2.528 0.379 0.768 TRT

ERROR 386.625 58 6.666

Post-hoc contrast of treatment 1 with control.

TEST FOR EFFECT CALLED: TRT

TEST OF HYPOTHESIS

SOURCE MS 0.415 4.500 4.500 0.675 HYPOTHESIS 386.625 58 6.666 **ERROR** 

Post-hoc contrast of treatment 2 with control.

TEST FOR EFFECT CALLED: TRT

TEST OF HYPOTHESIS

SOURCE SS DF MS 0.325 6.563 0.984 HYPOTHESIS 6.563 ERROR 386.625 58 6.666

Post-hoc contrast of treatment 3 with control.

TEST FOR EFFECT CALLED: TRT

TEST OF HYPOTHESIS

DF MS SOURCE SS 0.540 HYPOTHESIS 2.531 2.531 0.380 1 6.666 **ERROR** 386.625 58

ANOVA on food LEVELS ENCOUNTERED DURING PROCESSING ARE:

TRT

1.000

2.000

4.000

3.000

DEP VAR: FO	DOD N:	64	MULTIPLE R: 0.	451 SQUARED	MULTIPLE R: 0.203	
	ANALY	SIS (	OF VARIANCE			·
SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	P	
TRT	136498.797	3	45499.599	5.099	0.003	
ERROR	535389.063	60	8923.151		`	
Post-hoc cont TEST FOR EFFE TEST OF HYPOT		ent 1 TRT	with control.			
SOURCE	SS	DF	MS	F	P	
HYPOTHESIS ERROR	41977.531 535389.063	1 60	41977.531 8923.151	4.704	0.034	TI >C
Post-hoc cont TEST FOR EFFE TEST OF HYPOT		ent 2 TRT	with control.			
SOURCE	SS	DF	MS	F	P	
HYPOTHESIS ERROR	49141.125 535389.063	1 60	49141.125 8923.151	5.507	0.022	T2 > C
				)		
Post-hoc cont TEST FOR EFFE TEST OF HYPOT		ent 3 TRT	with control.			
SOURCE	SS	DF	MS	F	P	
HYPOTHESIS ERROR	134421.125 535389.063	1 60	134421.125 8923.151	15.064	0.000	Т3 > с

THE FOLLOWING RESULTS ARE FOR:
TRT = 1.000

TOTAL OBSERVATIONS: 16

•	THICK	HATWT	SURVWT	FOOD
N OF CASES	16	16	16	16
MINIMUM	0.191	3.000	19.000	497.000
MAXIMUM	0.237	7.000	26.000	707.000
MEAN	0.218	5.938	22.563	578.438
STANDARD DEV	0.012	0.854	2.097	63.700

THE FOLLOWING RESULTS ARE FOR:
TRT = 2.000

TOTAL OBSERVATIONS: 16

×1	THICK	HATWT	SURVWT	FOOD
N OF CASES	16	16	16	16
MINIMUM	0.183	6.000	20.000	503.000
MAXIMUM	0.248	7.000	28.000	763.000
MEAN	0.221	6.188	23.313	650.875
STANDARD DEV	0.018	0.403	1.922	82.462

THE FOLLOWING RESULTS ARE FOR: TRT = 3.000

TOTAL OBSERVATIONS: 16

	THICK	HATWT	SURVWT	FOOD
N OF CASES	14	14	14	16
MINIMUM	0.174	5.000	16.000	274.000
MAXIMUM	0.241	7.000	28.000	861.000
MEAN	0.215	6.000	23.500	656.813
STANDARD DEV	0.018	0.392	3.156	135.041

THE FOLLOWING RESULTS ARE FOR:

4.000

TOTAL OBSERVATIONS:

16

	THICK	HATWT	SURVWT	FOOD
N OF CASES	16	16	16	16
MINIMUM	0.196	5.000	18.000	533.000
MAXIMUM	0.234	7.000	28.000	813.000
MEAN	0.214	5.875	23.125	708.063
STANDARD DEV	0.012	0.719	3.008	81.233

CHI-SQUARE =	5.563 DF= 3	3 PROBABIL	ITY =	0.135		
	Al	NALYSIS OF	VARIANCE			
SOURCE	SUM OF SQUARES	DF MEAN	SQUARE	F PI	ROBABILITY	
BETWEEN GROUPS WITHIN GROUPS	0.000 0.013		0.000 0.000	0.683	0.566	
SUMMARY STATIST	ICS FOR HATW	т				
BARTLETT TEST F	OR HOMOGENEITY	OF GROUP \	/ARIANCES			
CHI-SQUARE =	12.538 DF=	3 PROBABIL	TY =	0.006		
,	A	NALYSIS OF	VARIANCE			
SOURCE	SUM OF SQUARES	DF MEAN	SQUARE	F P	ROBABILITY	
BETWEEN GROUPS WITHIN GROUPS		_	0.292 0.399	0.732	0.537	
BARTLETT TEST F	ICS FOR SURVW	OF GROUP \		0.445		
CHI-SQUARE =	5.136 DF=			0.162		
			F VARIANCE			
SOURCE	SUM OF SQUARES	DF MEAN	SQUARE	F P	ROBABILITY	
BETWEEN GROUPS WITHIN GROUPS			2.528 6.666	0.379	0.768	
SUMMARY STATIST	ICS FOR FOO	D				
BARTLETT TEST	OR HOMOGENEITY	OF GROUP	VARIANCES			
CHI-SQUARE =	9.439 DF=	3 PROBABI	LITY =	0.024		
		NALYSIS O	F VARIANCE	i		
SOURCE	SUM OF SQUARES	DF MEAN	SQUARE	F F	PROBABILITY	
BETWEEN GROUPS WITHIN GROUPS				5.099	0.003	

## KOLMOGOROV-SMIRNOV ONE SAMPLE TEST USING STANDARD NORMAL DISTRIBUTION

VARIABLE	N-OF-CASES	MAXDIF PROBA	BILITY (2-TAIL)
HATWT	62.000	0.999	0.000
SURVWT	62.000	1.000	0.000
THICK	62.000	0.569	0.000
FOOD	64.000	1.000	0.000

LINURON : BOBWHITE QUAIL / MALE WEIGHTS

TRT1 = CONTROL TRT2 = 50 PPM TRT3 = 100 PPM TRT4 = 300 PPM

IR14 = 3	UU PPM		TRT		PREWTM		POSTWTM	
CASE	1	•		1		199		198
CASE	ż			1		222		251
CASE	3	•		1		198		215
CASE	4			1		192		225
CASE	5			1		200		219
CASE	6			1		205		207
CASE	7			1		200		210
CASE	8			1		213		220
CASE	9		*	1		196		227
CASE	10			1		207		233
CASE	11			1		186		190
CASE	12			1		206		212
CASE	13			1_		210		230
CASE	14			1		199		209
CASE	15			1		212		230
CASE	16			1		180		213
CASE	17			2		197		208
CASE	18			2		202		235
CASE	19			2		183		198
CASE	20			2		206		239
CASE	21			2		183		212
CASE	22			2		203		210
CASE	23			2		196		206 262
CASE	24			2		230 218		202 227
CASE CASE	25 26			2		192		231
CASE	27			2		189		202
CASE	28			2		214		226
CASE	29			2		204		213
CASE	30			2		212		231
CASE	31			2		230		248
CASE	32			2		185		210
CASE	33			3		215		225
CASE	34			3		196		219
CASE	35			3		200		
CASE	36			3		209		214
CASE	37			3		199		227
CASE	38			3		220		225
CASE	39			3		206		218
CASE	40			3		196	*	239
CASE	41			5		223		255
CASE	42			2		181		222
CASE	43 44			2		207 220		260
CASE CASE	44 45			2		236		231
CASE	46			7		224		247
CASE	47			222222222222222222233333333333333333333		229		261
CASE	48			3		194		236
CASE	49			4		229		236
CASE	50			4		191		203
CASE	51			4		203		214
CASE	52			4		188		210
CASE	53			4		203		207
CASE	54			4		221		227
CASE	55			4		189		187
CASE	56			4		222		219
CASE	57			4		214		232
CASE	58			4		207		219
CASE	59			4		208		253 213
CASE	60 61			4		202		234
CASE	61 62			4		222		234 214
CASE CASE	63	-		4		194		206
CASE	64			4		198		216
				•		. , .		

LINURON : BOBWHITE QUAIL / MALE WEIGHTS

ANOVA on MALE POST WEIGHTS

LEVELS ENCOUNTERED	DURING	PROCESSING	ARE:
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TRT

1.000

2.000

3.000

DEP VAR: POSTWTM

HYPOTHESIS ERROR 99.264 8307.215

N:

62 MULTIPLE R: 0.726 SQUARED MULTIPLE R: 0.527

4.000

#### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	Р	
TRT PREWTM	1254.157 6729.579	3 1	418.052 6729.579	2.868 46.175	0.044 0.000	
ERROR	8307.215	57	145.741			
B		1	th assetsol			
TEST FOR EFF		TRT	with controt.			
SOURCE	ss	DF	MS	F		P
HYPOTHESIS ERROR		1 57	90.886 145.741	0.624		0.433
Post-hoc cor TEST FOR EFF TEST OF HYPO		ent 2 TRT	with control.			
SOURCE	E SS	DF	MS	F		<b>P</b>
HYPOTHESIS ERROF		1 57	574.939 145.741	3.945	<u>.</u>	0.052
Post-hoc cor TEST FOR EFI TEST OF HYPO		ent 3 TRT	with control.			
SOURCE	ss s	DF	MS	F		P

99.264 145.741 0.413

0.681

LINURON : BOBWHITE QUAIL / MALE WEIGHTS

THE FOLLOWING RESULTS ARE FOR:
TRT = 1.000

TRT

TOTAL OBSERVATIONS: 16

	PREWTM	POSTWTM
N OF CASES	16	16
MINIMUM	, 180.000	190.000
MAXIMUM	222.000	251.000
MEAN	201.563	218.063
STANDARD DEV	10.488	14.735

THE FOLLOWING RESULTS ARE FOR: TRT = 2.000

TOTAL OBSERVATIONS: 16

	PREWTM	POSTWTM
N OF CASES	16	16
MINIMUM	183.000	198.000
MAXIMUM	230.000	262.000
MEAN	202.750	222.375
STANDARD DEV	15.102	17.948

THE FOLLOWING RESULTS ARE FOR: TRT = 3.000

TOTAL OBSERVATIONS: 16

	PREWTM	POSTWTM
N OF CASES	16	14
MINIMUM	181.000	214.000
MAXIMUM	236.000	261.000
MEAN	209.688	234.214
STANDARD DEV	14.970	15.904

THE FOLLOWING RESULTS ARE FOR: 4.000

TOTAL OBSERVATIONS:

16

	PREWTM	POSTWTM
N OF CASES	16	16
MINIMUM	188.000	187.000
MAXIMUM	229.000	253.000
MEAN	206.125	218,125
STANDARD DEV	12.691	15.620

SUMMARY STATISTICS FOR PREWTM

BARTLETT TEST FOR HOMOGENEITY OF GROUP VARIANCES

CHI-SQUARE = 2.419 DF= 3 PROBABILITY = 0.490 ANALYSIS OF VARIANCE

F PROBABILITY SUM OF SQUARES DF MEAN SQUARE SOURCE 213.938 1.183 0.324 BETWEEN GROUPS

641.813 3 10848.125 60 180.802 WITHIN GROUPS

SUMMARY STATISTICS FOR POSTWTM

BARTLETT TEST FOR HOMOGENEITY OF GROUP VARIANCES

0.616 DF= 3 PROBABILITY = 0.893 CHI-SQUARE =

ANALYSIS OF VARIANCE

F PROBABILITY SUM OF SQUARES DF MEAN SQUARE SOURCE

3.260 0.028

2535.592 3 845.197 BETWEEN GROUPS 15036.795 58 WITHIN GROUPS 259.255

KOLMOGOROV-SMIRNOV ONE SAMPLE TEST USING STANDARD NORMAL DISTRIBUTION

N-OF-CASES MAXDIF PROBABILITY (2-TAIL) VARIABLE

64.000 1.000 0.000 PREWTM 1.000 0.000 62.000 POSTWTM

LINURON : BOBWHITE QUAIL / FEMALE WEIGHTS

TRT1 = CONTROL TRT2 = 50 PPM TRT3 = 100 PPM TRT4 = 300 PPM

TRT4 = 3	300 PPM				
			TRT	PREWTF	POSTWTF
	4			22/	263
CASE	1		1	224	
CASE	2		1	197	247
CASE	3		1	192	214
CASE	4		1	206	234
CASE	5		1	206	255
CASE	6		1	202	270
CASE	7		1	196	260
CASE	8		\ 1	184	235
CASE	9		1	194	224
CASE	10		1	190	224
CASE	11		1	195	245
CASE	12		1	202	259
CASE	13		1	181	229
CASE	14		1	207	267
CASE	15		1	207	252
CASE	16		1	. 196	171
CASE	17		2	199	237
CASE	18		2	204	223
CASE	19		2	221	267
CASE	20		2	219	276
CASE	21		, <b>2</b>	200	245
CASE	22		2	188	217
CASE	23		2	186	214
CASE ·	24		2	205	272
CASE	25		2	202	260
CASE -	26		2	197	253
CASE	27		2	192	238
CASE	28		2	210	287
CASE	29		2	213	262
CASE	. 30		2222222222222333333333333333333333	192	238
CASE	31		2	191	238
CASE	32		2 .	214	279
CASE	33		3	202	204
CASE	34		3	223	267
CASE	35		3	185	2/4
CASE	36		2	217	241
CASE	37		3	198	240
CASE	38		3	187	225
CASE	39		3 .	202	252
CASE	40	•	- 3	192	216
CASE	41		3	187	236 239
CASE	42		3	201	239
CASE	43		3	193	240
CASE	44		3	204 218	240 261
CASE	45			207	254
CASE	46		· 3	207	241
CASE	47 48			203 217	284
CASE			4	199	221
CASE	49 50		4	197	230
CASE	50 51		4	219	247
CASE CASE	52		4	192	228
CASE	53		4	227	260
CASE	54		4	206	243
	55		4	196	222
CASE	56		4	195	233
CASE	57		4	191	230
CASE	58		4	191	228
CASE	59		4	189	232
CASE CASE	60		4	191	221
CASE	61		4	211	242
CASE	62		4	184	258
CASE	63		4	201	260
CASE	64		4	199	209
3,,36			•		

LINURON : BOBWHITE QUAIL / FEMALE WEIGHTS

ANOVA on FEMALE POST WEIGHTS

LEVELS EN	COUNTERED	DURING	PROCESSING	ARE:
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TRT

1.000

2.000

3.000

4.000

DEP VAR: POSTWTF

N:

62 MULTIPLE R: 0.633 SQUARED MULTIPLE R: 0.401

### ANALYSIS OF VARIANCE

SOURCE	SUM-OF-SQUARES	DF	MEAN-SQUARE	F-RATIO	Р
TRT PREWTF	1301.339 9297.003	3 1	433.780 9297.003	1.479 31.692	0.230 0.000
ERROR	16721.399	57	293.358		

Post-hoc contrast of treatment 1 with control. TEST FOR EFFECT CALLED:  $\ensuremath{\mathsf{TRT}}$ 

TEST OF HYPOTHESIS

SOURCE	SS	DF	MS	` F	P
HYPOTHESIS ERROR	278.815 16721.399	1 57	278.815 293.358	0.950	0.334

Post-hoc contrast of treatment 2 with control.

TEST FOR EFFECT CALLED:

TRT

TEST OF HYPOTHESIS

SOURCE	SS	' DF	MS	. <b>F</b>	P
HYPOTHESIS ERROR	113.662 16721.399	1 57	113.662 293.358	0.387	0.536

Post-hoc contrast of treatment 3 with control.

TEST FOR EFFECT CALLED: TEST OF HYPOTHESIS

TEST OF HIPOTH	E313				
SOURCE	SS	DF	MS	F	P
HYPOTHESIS ERROR	283.849 16721.399	1 57	283.849 293.358	0.968	0.329

LINURON : BOBWHITE QUAIL / FEMALE WEIGHTS

THE FOLLOWING RESULTS ARE FOR:
TRT = 1.000

TOTAL OBSERVATIONS: 16

PREWTF	PO	DSTWTF	
	16		_

N OF CASES 181.000 224.000 171.000 270.000 MINIMUM MAXIMUM 198.688 10.358 MEAN 240.563 25.150 STANDARD DEV

THE FOLLOWING RESULTS ARE FOR: 2.000

TOTAL OBSERVATIONS: 16

PREWTF	POSTWT

N OF CASES MINIMUM MAXIMUM MEAN	16 186.000 221.000 202.063	16 214.000 287.000 250.375
MEAN	202.063	
STANDARD DEV	10.963	22.583

THE FOLLOWING RESULTS ARE FOR:
TRT = 3.000

TOTAL OBSERVATIONS:

16

PREWTE	POSTWTF

N OF CASES	. 16	14
MINIMUM	185.000	204-000
MAXIMUM	223.000	284.000
MEAN	202.250	242.857
STANDARD DEV	11.869	20.471

THE FOLLOWING RESULTS ARE FOR:
TRT = 4.000

TRT

TOTAL OBSERVATIONS: 16

PREWTF	POSTWT
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N OF CASES	16	16
MINIMUM	184.000	209.000
MAXIMUM	227.000	260.000
MEAN	199.250	235.250
STANDARD DEV	11.475	15.128

SUMMARY STATISTICS FOR PREWTF

BARTLETT TEST FOR HOMOGENEITY OF GROUP VARIANCES

CHI-SQUARE =

0.301 DF= 3 PROBABILITY =

0.960

0.441

ANALYSIS OF VARIANCE

SOURCE

SUM OF SQUARES DF MEAN SQUARE

PROBABILITY

BETWEEN GROUPS

165.375 3

55.125

WITHIN GROUPS

7500.375 60

125.006

0.725

SUMMARY STATISTICS FOR POSTWTF

BARTLETT TEST FOR HOMOGENEITY OF GROUP VARIANCES

CHI-SQUARE =

3.793 DF= 3 PROBABILITY =

0.285

1.405

ANALYSIS OF VARIANCE

SOURCE

SUM OF SQUARES DF MEAN SQUARE

PROBABILITY

BETWEEN GROUPS

3 1890.969

630.323

0.250

WITHIN GROUPS

26018.402 58

448.593

KOLMOGOROV-SMIRNOV ONE SAMPLE TEST USING STANDARD NORMAL DISTRIBUTION

VARIABLE

N-OF-CASES MAXDIF PROBABILITY (2-TAIL)

PREWTF POSTWTF 64.000 62.000 1.000 1.000 0.000 0.000

# DATABASE ENTRY FORM FOR ACUTE OR CHRONIC TOXICITY STUDIES

1.	Chemical Linuren Shaughnessy 033306
2.	Common Name Of Organism Tested Bobwhite quail
3.	Scientific Name Colinus Virginianus
4.	Age Of Organisms 25 weeks
5.	Guideline No. 71-4
6.	Type Of Dosing Method (Circle One) Or Study
	1. Oral 2. Dietary 3. Reproduction 4. Static 5. Static Renewal 6. Flowthrough 7. Acute Contact 8. Other
7.	% AI Of Test Substance 98.4%
8.	study Duration (Hrs Or Days) = 22 weeks (151 days)
9.	Dose Type (Circle One) A. LD50 B. LC50 C. EC50 D. MATC NOEC
10.	Toxicity Level A. mg/kg B ppm C. mg/l D. $\mu$ g/l E. ng/l F. $\mu$ g/bee G. Other
11.	95% C.L.s N/A
12.	Curve Slope N/A
13.	NOEK 100 ppm
14.	Study Date (YEAR)   1992
15.	Study Review Date (YEAR) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
16.	Category (Circle One) CORE SUPPLEMENTAL INVALID
17.	MRID or Accession Number 425418-01
18.	Laboratory WLI
19.	Reviewer M.L. Whitten
20.	For Reproductive Studies (avian or aquatic) Indicate Which Parameter Affected At What Toxicity Level.
	Eggs Laid 300 ppm % Cracked % Viable % Live Embryos % Eggs hatched 300 ppm 14D Survivors 300 ppm Growth Effected at Other Effects